R eading C om prehension

Q uestions 1-3 are based on the following reading passage.

W hile new census data reveals that unem ploym ent num bers are even direr than w as previously suspected, it is not clear that the forecast for A m erican entrepreneurship is equally alarm ing.A n article in a m ajor national new spaper suggests that the contraction in hiring at existing com panies m ight result in m ore new com panies being founded.C ollege graduates,

- unable to find traditional jobs,instead opt to start their own businesses.W here a recession m ay seem an unpropitious time for such a historically risky endeavor,w ith no better options,w ould-be entrepreneurs have
- 5 little to lose.U nfortunately,this situation does not necessarily im pact the econom y positively. Though the average num ber of new businesses started per year has been higher during the recession than it was before, the proportion of high-value businesses founded each year has declined. So even if a business manages to stay solvent, it may not bring significant returns. A lso, because of an inevitable dearth of angel investors and venture capitalists, many new
- 10 entrepreneurs are putting their ow n m oney on the line. In certain w ays, the choice betw een accepting a traditional job and starting a business is not unlike the choice betw een renting and buying property. The latter requires a significant initial outlay and carries
- 15 heavier risks, but the rew ards can be equally substantial.
- 1. The prim ary purpose of the passage is to
 - (A) propose changes in the w ay the public generally interprets census data
 - (B) m aintain that college students should form their ow n com panies, especially during econom ic recessions
 - (C) present a nuanced view of a contem porary econom ic issue
 - (D) evaluate the viability of low -versus high-value businesses under various environm ental conditions
 - (E) draw an analogy betw een career decisions and real estate decisions, specifically the choice to rent or buy property
- 2.A ccording to the passage, the reason that m any college graduates are choosing to launch their ow n companies in the present economic climate is that
 - (A) they are ham pered by the difficulty of finding outside investors
 - (B) they cannot easily land positions typically open to w orkers of their experience (C) the prevalence of low -value com panies has increased
 - (D) they are forced to decide betw een renting and buying property
 - (E) forecasts of the unem ploym ent rate are likely to becom e less dire in com ing years
- 3.It can be inferred from the passage that over the course of the recent recession, the num ber of A m erican high-value businesses founded per year
 - (A) has fallen sharply
 - (B) has fallen m oderately
 - (C) has risen sharply

- (D) has risen m oderately
- (E) m ay have either fallen or risen

Q uestion 4 is based on the follow ing reading passage.

A ccording to M ercy A m ba O duyoye in *D* aughters of Anow a: African W om en and Patriarchy, the w om en of the A sante people of G hana participated in w ar as nurses or in providing supplies, but only those w ho had not yet reached or w ho w ere past childbearing age. If such w om en died in battle, they died "as individuals and not as potential sources of hum an life."

5A s such,m any old w om en engaged in valiant acts,som etim es sacrificing their ow n lives,to defend those they had given life to.

- 4.W hich of the follow ing can be inferred from the passage?
 - (A) The deaths of A sante w om en of childbearing age w ere lam ented m ore than w ere the deaths of other w om en.
 - (B) Older A sante wom en were more courageous than younger A sante wom en.
 - (C) Som e of those w ho w orked as nurses or in providing supplies died in battle.
 - (D) W om en of childbearing age w ere accorded special status above other w om en and m en.
 - (E) M en could not be considered "potential sources of hum an life."

Q uestions 5–7 are based on the following reading passage.

The past decade has seen a statistically significant uptick in reports of the bacterial strains know n as "super-bugs," so called not because of enhanced virulence, but because of their resistance to m any antim icrobial agents. In particular, researchers have become alarm ed about NDM-1 (New Delhi m etallo-beta-lactam ase), which is not a single bacterial species, but a transmittable genetic element encoding multiple resistance genes. A resistance "cocktail" such as NDM-1 could be stow im munity to a beyond preexisting drugs simultaneously rendering the

5 could bestow im m unity to a bevy of preexisting drugs sim ultaneously,rendering the bacterium nearly im pregnable.

H ow ever,in spite of the w ell-docum ented dangers posed by antibiotic-resistant bacteria,m any scientists argue that the hum an race has m ore to fear from viruses.W hereas bacteria reproduce asexually through binary fission, viruses lack the necessary structures for reproduction, and so are known as "intracellular obligate parasites." V irus particles called virions m ust m arshal the host cell's

- 10 ribosom es,enzym es,and other cellular m achinery in order to propagate.O nce various viral com ponents have been built,they bind together random ly in the cellular cytoplasm .The new ly finished copies of the virus break through the cellular
 - m em brane, destroying the cell in the process. B ecause of this, viral infections cannot be treated ex post facto in the sam e w ay that bacterial infections can, since antivirals designed to kill the virus could do critical dam age
- 15 to the host cell itself. In fact, viruses can infect bacteria (them selves com plete cells), but not the other w ay around. For m any viruses, such as that responsible for the com m on cold sore, rem ission rather than cure is the goal of currently
- 20 available treatm ent.

W hile the insidious spread of drug-resistant bacteria fueled by overuse of antibiotics in agriculture is nothing to be sneezed at, bacteria lack the potential for cataclysm that viruses have. The prominent virologist

N athan W olfe considers hum an im m unodeficiency virus (H IV),w hich has resulted in the deaths of m ore than thirty m illion people and infected tw ice that num ber, "the biggest near-m iss of our lifetim e." D espite being the m ost lethal pandem ic in history,H IV could

- 25have caused far w orse effects.It is only fortunate happenstance that this virus cannot be transm itted through respiratory droplets,as can the viruses that cause m odern strains of sw ine flu (H 1N 1),avian flu (H 5N 1),and SA R S.
- 5. The main purpose of the passage can be expressed most accurately by which of the following?
 - (A) To contrast the m anner by w hich bacteria and viruses infect the hum an body and cause cellular dam age.
 - (B) To explain the operations by which viruses use cell machinery to propagate.
 - (C) To argue for additional resources to com bat drug-resistant bacteria and easily transm issible pathogenic viruses.
 - (D) To highlight the good fortune experienced by the hum an race, in that the H IV pandem ic has not been m ore lethal.
 - (E) To com pare the relative dangers of two biological threats and judge one of them to be far more important.
- 6.It can be inferred from the passage that infections by bacteria
 - (A) result from asexual reproduction through binary fission
 - (B) can be treated ex post facto by antim icrobial agents
 - (C) can be rendered vulnerable by a resistance cocktail such as ND M-1
 - (D) are rarely cured by currently available treatm ents, but rather only put into rem ission
 - (E) m irror those by viruses,in that they can both do critical dam age to the host cell
- 7.A ccording to the passage, intracellular obligate parasites
 - (A) are unable to propagate them selves on their ow n
 - (B) assemble their components randomly out of virions
 - (C) reproduce them selves through sexual com bination with host cells
 - (D) have become resistant to antibiotics through the overuse of these drugs
 - (E) construct necessary reproductive structures out of destroyed host cells

Q uestions 8-10 are based on the follow ing reading passage.

A supernova is a brief stellar explosion so lum inous that it can briefly outshine an entire galaxy. While the explosion itself takes less than fifteen seconds, supernovae take wheeks or months to fade from view; during that time, a supernova can emit an amount of energy equivalent to the amount of energy the sun is expected to radiate over its entire lifespan.

5 Supernovae generate enough heat to create heavy elem ents, such as m ercury, gold, and silver. A lthough supernovae explode frequently, few of them are visible (from Earth) to the naked eye.

In 1604 in Padua, Italy, a supernova became visible, appearing as a star so bright that it was visible in daylight for more than a year. Galileo, who lectured at the university, gave several lectures widely attended by the public. The lectures not only sought to explain the origin of the "star" (some posited that perhaps it was merely "vapour near the earth"), but seriously undermined the

10 view s of m any philosophers that the heavens were unchangeable. This idea was foundational to a worldview underpinned by a central and all-important Earth, with celestial bodies merely rotating around it.

8.The prim ary purpose of the passage is to
(A) give the history of supernovae
(B) describe a shift in thought as a result of a natural event (C) juxtapose two opposing view s about supernovae
(D) corroborate the view that the earth is not central to the universe
(E) explain how science and philosophy interrelate
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
9.W hich of the follow ing can be inferred by the passage?
Supernovae can take over a year to fade from view .
Prior to 1604,no one had ever seen a supernova.
G alileo convinced philosophers of the incorrectness of their view s.
10. The author m entions w hich of the follow ing as a result of the supernova of 1604?
(A) The supernova created and dispersed the heavy elem ents out of w hich the earth and
everything on it is m ade. (B) G alileo explained the origin of the supernova.
(C) The public w as interested in hearing lectures about the phenom
enon. (D) G alileo's lectures w ere opposed by philosophers.
(E) Those w ho thought the supernova w as "vapour" w ere proved w rong.
Q uestion 11 is based on the follow ing reading passage.
A Sm all Place is Jam aica K incaid's m em oir of grow ing up in A ntigua as w ell as an indictm ent of the A ntiguan governm ent and B ritain's colonial legacy in A ntigua.K incaid blam es colonial rule for m any of A ntigua's current problem s,including drug dealing and selling off land for tourist properties.K incaid's critics question w hy,if the B ritish are responsible for
5the A ntiguan governm ent's corruption, the B ritish governm ent itself isn't m ore corrupt. K incaid ha responded that there m ust have been some good people am ong the B ritish, but that they stayed hom e
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
11.B ased on the inform ation in the passage,w hich of the follow ing w ould K incaid m ost likely agree w ith?
A governm ent can bring about a degree of corruption abroad that the governm ent itself does not suffer from at hom e.
☐ B ritain has caused corruption in governm ents throughout its form er colonial em
pire. Delling off land for tourism -related purposes is a problem for A ntigua.

Q uestions 12–14 are based on the following reading passage.

B y 1784,W olfgang A m adeus M ozart w as internationally renow ned as the com poser of *The M arriage of Figaro*,and consequently received a com m ission from the Prague O pera H ouse to com pose another opera. The resulting product w as *D on G iovanni*,w hich tells the tale of a crim inal and seducer w ho nevertheless evokes sym pathy from audiences,and w hose behavior

5 fluctuates from m oral crisis to hilarious escapade.

W hile *D* on *G* iovanni is w idely considered to be M ozart's greatest achievem ent, eighteenth century audiences in V ienna — M ozart's own city — w ere am bivalent at best. The opera m ixed traditions of m oralism w ith those of com edy — a practice heretofore unknown am ong the composer's w orks — creating a production that w as not well liked by conservative V iennese 10 audiences. Meanwhile, however, *D* on *G* iovanni w as performed to much acclaim throughout Europe.

12. The prim ary purpose of the passage is to

- (A) relate the story of a som ew hat likable antihero
- (B) discuss how a w ork of art has been m et by diverging responses (C) give a history of the w ork of M ozart
- (D) m ake a case for the renow n of D on G iovanni
- (E) em phasize the m oral aspects of a m usical w ork
- 13. The author m entions the m ixing of "traditions of m oralism w ith those of com edy" prim arily in order to
 - (A) explain a w ork's lackluster reception am ong a particular group of people (B) rem ind the reader of the plot of *D* on *G* iovanni
 - (C) highlight a practice com m on in contem porary opera (D) argue for an innovative approach to opera
 - (E) underm ine a previously presented assertion
- 14.It can be inferred from the passage that w hich of the follow ing is true about the response of V iennese audiences to D on G iovanni?
 - (A) The audiences preferred purely m oralistic w orks. (B) The response was unequivocally positive.
 - (C) They did not know that the composer was attempting to mix musical styles. (D) The play's moral them es were offensive to Viennese audiences.
 - (E) To say that the response w as "m ixed" w ould be a generous interpretation.

Q uestions 15–17 are based on the follow ing reading passage.

In the 1960's,N orthw estern U niversity sociologist John M cK night coined the term *redlining*,the practice of denying service,or charging m ore for service,to custom ers in particular geographic areas,areas often determ ined by the racial com position of the neighborhood. The term cam e from the practice of banks outlining certain areas in red on a map — w ithin the red outline,banks refused to invest. W ith no access to m ortgages, residents w ithin the red line suffered low property values and landlord abandonm ent; buildings abandoned by landlords w ere then likely to become centers of drug dealing and other crime, thus further low ering property values.

R edlining in m ortgage lending w as m ade illegal by the Fair H ousing A ct of 1968,w hich prohibited such discrim ination based on race,religion,gender,fam ilial status,disability,or ethnic origin,and by com m unity reinvestm ent legislation in the 1970's.H ow ever,redlining m ay have continued in less explicit

10 w ays,and can also take place in regards to constrained access to health care,jobs,insurance,and m ore. Even today, som e credit card com panies send different offers to hom es in different neighborhoods, and som e auto insurance com panies offer

15 different rates based on zip code.

R everse redlining occurs when predatory businesses specifically target minority consumers for the purpose of charging them more than would usually be charged to a consumer of the majority group. Redlining can lead to reverse redlining—if a retailer refuses to serve a certain area based on the ethnic-minority composition of the area, people in that area

20 can fall prey to opportunistic sm aller retailers w ho sell inferior goods at higher prices.

C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
15.W hich of the follow ing can be inferred from the passage?
R edlining ceased w ith the passing of the Fair H ousing A ct in 1968. R edlining today m ay be less overt than before its illegalization. A ccess to m ortgages is related to higher property values.
16.W hich of the follow ing,not m entioned in the passage,w ould qualify as an exam ple of reverse redlining as defined in the passage?
 (A) A bank refuses to offer m ortgages to consum ers in certain neighborhoods. (B) R esidents of low -incom e neighborhoods are less likely to be hired for positions than residents of higher-incom e neighborhoods, even when the applicants have the same qualifications. (C) Police respond to reports of crimes more quickly in some neighborhoods than in others. (D) A grocery store in a low -incomen e neighborhood sells low -quality produce for high prices, knowing that most residents do not have the ability to buy elsewhere. (E) A nauto insurance companyhires an A frican A merican spokesperson in a bid to attract more A frican A merican consumers.
17.W hich correctly describes a sequence of events presented in the passage?
 (A) Subprim e m ortgages lead to w idespread defaults,w hich lead to landlord abandonm ent. (B) R everse redlining leads to landlord abandonm ent,w hich leads to the use of buildings for crim e and drug dealing. (C) Landlord abandonm ent leads to redlining,w hich leads to crim e and drug dealing. (D) R edlining leads to reverse redlining,w hich leads to constrained access to health care,jobs,insurance, and m ore. (E) R edlining leads to landlord abandonm ent,w hich leads to the use of buildings for crim e and drug dealing.
Q uestion 18 is based on the follow ing reading passage.

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Q uestions 19–23 are based on the follow ing reading passage.	1
☐ G erm ophobia can contribute to depriving babies of a health benefit. ☐ Prem asticating food for babies is done only in the developing w orld. ☐ A dult saliva has benefits for babies in addition to the transm ission of beneficial dig	gestive bacteria.
18.B ased on the inform ation in the passage, the author of the passage w ould m ost	likely agree tha
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.	
Throughout m ost of hum an history, babies also received antibodies and digestive bacteria from 5 saliva, transm itted via prem asticated food. In some cultures, fathers also premate for babies; sometimes even entire family groups will do this—a toddler at a faight wander from person to person, being fed by many adults.	sticate food
digestive bacteria;they get som e from passing through the birth canal,but continuous to encounter the beneficial bacteria during breastfeeding and w hile being handled,in general,but continuous to encounter the beneficial bacteria during breastfeeding and w hile being handled,in general,but continuous to encounter the beneficial bacteria during breastfeeding and w hile being handled,in general,but continuous to encounter the beneficial bacteria during breastfeeding and w hile being handled,in general,but continuous to encounter the bacteria;	y adults.

baby.W hile germ ophobic W estern society eschews this practice, it is not only common in the developing world but provides benefits to a developing baby B abies are not born with

M atisse and Picasso; Picasso and M atisse. Throughout the tw entieth century, this pairing has been touted as the quintessential artistic rivalry. In *M atisse and Picasso*, Y ve-A lain B ois follows H ubert D am isch in proposing that the interaction between Picasso and M atisse should be seen as a dynamic game rather than a static conflict of artistic polarities. B ois employs the

5 m etaphor of chess, arguing that the gam e represents the artists' exchange as "a com petitive rivalry and a com plex tem porality" that can be view ed both as a linear process and a sim ultaneous structure.

B ut the m etaphor of a com petitive sport, how ever com plex and intellectually rich, is m isleading. The two artists were engaged not just in competition (even friendly competition) but also in friendly dialogue. The two men were more than rivals: they were colleagues, critics, teachers, and

10 occasional friends. A better m odel, though perhaps one w ith less flash, is that of a sim ple conversation, w ith all the rich variation and shifts in m otivation and tone that are possible.

Picasso's Large N ude in a Red Arm chair m arks the extrem es of the artist's com bativeness tow ards M atisse. The painting is a clear parody of M atisse's earlier O dalisque w ith a Tam bourine. The com position of the figures is strikingly sim ilar: a w om an lounges in an arm chair at the center of the painting,

- 15 arm raised above her head, decorative w allpaper behind her. B oth paintings feature vivid color contrasts, w ith green w allpaper, vivid reds, glaring yellow s, and rich brow ns. B ut Picasso's painting, finished in 1929, m ocks the achievem ents of M atisse's
- 20 earlier w ork. The sensuous, rich m ood of M atisse's painting has been transform ed in Picasso's w ork into som ething harsh and grotesque.

The other extrem e of the dialogue betw een the two artists can be seen in Picasso's *W om an w ith Yellow H air* and M atisse's response, *The D ream*. The exchange begins with Picasso's work,in 1931. The painting depicts a wom an asleep on her arm s,resting on a table. She is full, rich, warm, and curved, her head and arm s form ing a graceful arabesque. This im age seem s a direct attempt to

25m aster M atisse's style and to suggest to the older artist new directions for his w ork.W hile there m ay w ell be an edge of com petitiveness to the painting, a sense that Picasso w as dem onstrating his ability to do M atisse's w ork, it rem ains in large part a helpful hint.

M atisse, nearly a decade later, continues the conversation in a sim ilar tone. In *The D ream* of 1940, he proposes a revision of Picasso's w ork. A gain, a w om an lies asleep on a table, her arm tucked beneath her head. M atisse accepts Picasso's basic suggestions for his style: sinuous curves, volum es, and

- 30 shocking uses of color to express an effect.B ut M atisse also m odifies the earlier w ork significantly.C olor is no longer rigidly tied to form ,as bits of fuchsia seep outside the thick black line m arking the outline of the table and the patch of yellow on the w om an's blouse refuses to be contained by the draw n line.M atisse uses Picasso's sam e palette of red, purple, w hite,
- 35black,and yellow to create this revision,editing out only the garish green,as if to chide Picasso for the choice. The brilliant interplay of colors in M atisse's w ork is far m ore sophisticated and subtle than that offered by Picasso. "Thank you," M atisse seems to be saying, "but you m issed a few spots."

19. The prim ary purpose of the passage is to

- (A) discuss the two best painters of an epoch
- (B) evaluate a theory and endorse a revision
- (C) com pare selected w orks of two masters
- (D) show that M atisse's w ork is m ore sophisticated
- (E) illustrate how Picasso taught M atisse
- 20. The author w ould m ost likely agree w ith w hich of the following statem ents?
 - (A) A rtistic rivalries are m ore like O lym pic com petitions than professional sports. (B) A rtistic m astery is best dem onstrated by em ploying m ultiple styles.
 - (C) A rtists m ust be good conversationalists.
 - (D) A rtistic rivalries can actually be reciprocally nourishing.
 - (E) A rtistic rivalries generally last for decades.
- 21.A ccording to the passage, which of the following describes W om an with Yellow H air?
 - (A) It was parody of a work by Matisse.
 - (B) Its colors were not rigidly tied to its form.
 - (C) Its color palette w as larger than that of *The D* ream. (D) It w as a response to a w ork by M atisse.
 - (E) It was harsh and grotesque.

22. The passage indicates that

- (A) Large N ude in a Red Arm chair conveyed a sensuous, rich m ood (B) M atisse verbally com m ented about W om an w ith Yellow H air (C) M atisse and Picasso w ere lifelong friends
- (D) Matisse worked on The D ream for nearly a decade
- (E) M atisse w as older than Picasso
- 23.W hich of the follow ing,had it actually occurred during the artists' lifetim es,w ould further support the author's thesis?
 - (A) A joint exhibition of the two artists' work.
 - (B) A radio broadcast of the two artists discussing painting.
 - (C) A m ovie that dram atized the com petition betw een the tw o artists. (D) A play that depicted the tw o artists playing chess.
 - (E) A painting of the tw o artists.

Q uestions 24-28 are based on the following reading passage.

O ften taking a prom inent position over a w hiteboard or across a w all,tim elines are one of the m ost com m onplace classroom tools used to teach history. They present a concise chronology w ith dates and events listed in a linear narrative, form ing a skeletal story of history. D espite their usefulness in allow ing students to gain a cursory know ledge of m any key

m om ents in the past, their bare-bones, fact-centered structure is sym ptom atic of the **m yopic** character of 5 curricula that em phasize the W hat, W hen, and W ho and eclipse the significance of W hy and H ow .

In the U nited States,by far the m ost com m on brand and form at of tim eline is the W orld A Im anac for K ids U S H istory Tim eline— a banner set of 8 horizontal panels each w ith 8 events,beginning w ith C olum bus's voyage in 1492 and ending w ith C linton's election in 1993. This tim eline has photos accompanying it— about 5–6 per panel— next to m ost of the dates, and below each date is a 1–2

- 10 line description of an event that took place in that year. W hat im m ediately com m ands one's attention w hen looking at this tim eline are the dates them selves. B older and m ore prom inently placed than anything else, they seem im plied to
- 15 be the m ost im portant feature of the tim eline— even m ore so than the events' descriptions. The w ay the dates line up in perfect order presents the view er w ith a rigid historical narrative, com plete w ith a beginning and end.

To analyze any particular tim eline, it is im portant to recognize w hat the tim eline expresses im plicitly. The first im plicit m essage transm itted by the W orld A Im anac for K ids U S H istory Tim eline is that each event listed on the tim eline's face m ust hold som e kind of particular historical significance to qualify as one of only 64 pieces of A m erican history presented, though no event's entry gives

- 20 even a vague explanation as to w hy it m erits this. The second m essage the tim eline conveys, sim ply by hanging in the classroom, is that this version of history is an "official" one. Third, that each of these events happened totally independent of one another. Fourth, that, at m ost, only one significant event occurred in any given year. And finally, that Am erican history is entirely made up of w ars and m inor battles, punctuated by the occasional presidential election and
- 25 technological innovation.N ow ,certainly,one can easily surm ise that the tim eline is not conscious of these im plications,and instead assum es that the view er will autom atically acknow ledge that it is not a comprehensive history but rather a simple sum mary
- 30 of events through tim e.The danger of using the tim eline as a teaching tool, of course, lies squarely in that assum ption.
- 24. The author im plies w hich of the following?
 - (A) D ates are not im portant in history.
 - (B) H istorical events are not interconnected.
 - (C) Im plicit m essages can be as im portant as explicit ones.
 - (D) A study of A m erican history that does not include w om en and m inorities is incom plete.
 - (E) A m erican history is best thought of as a linear continuum of events.
- 25. The author's attitude tow ard tim elines can best be described as
 - (A) condescending and im pertinent
 - (B) tolerant and bem used
 - (C) suspicious and resigned
 - (D) w ary and portentous
 - (E) negative and com placent
- 26. The author would most likely agree with all of the following EX C EPT:

- (A) There are m ore than 64 im portant events in A m erican history.
- (B) Som e students ascribe im portance to prom inent graphic position. (C) Tim elines have som e positive uses.
- (D) Tim elines have no sublim inal effects.
- (E) U nofficial histories have m erit.
- 27.A ccording to the passage, a problem w ith tim elines is
 - (A) their prom inent placem ent in classroom s (B) their lack of context
 - (C) their infinite nature
 - (D) their factual inaccuracy
 - (E) their inclusion of photos
- 28.W hich of the follow ing could be substituted for the w ord m yopic w ithout changing the m eaning of the passage?
 - (A) ignorant
 - (B) bigoted (C
 -) purblind (D)
 - astigm atic
 - (E) m ordant

Q uestions 29-34 are based on the following reading passage.

A s queen of France,M arie A ntoinette suffered w hat w ere likely the harshest criticism s ever laid against any queen or m istress in France's long history. There w ere two m ajor factors that combined to propagate this dark new level of acidic criticism — one w as the bloom ing public sphere, and the second w as the scandalous "D iam ond N ecklace A ffair."

Literacy rose greatly over the course of the 18th century and,not coincidentally,the annual output of printed publications tripled by the end of Louis X V 's reign and expanded exponentially throughout Louis

- 5 X V I's kingship.R oyal censorship had also been greatly reduced by this tim e,and a m assive "black m arket" for books and extrem ely popular underground publications flourished during this period.A Iso,coffeehouse culture and print culture collided
- 10 during the m id-to-late 1700's, giving Parisians open forum s in w hich to share the gossips and criticism s circulating via the underground pam phlets.

H aving endless num bers of pam phlets and an equally infinite num ber of readers eager to snap them up w ould be no good w ithout a juicy story,how ever. This, of course, w as exactly w hat the people received w ith the D iam ond N ecklace A ffair. On A ugust 11th, 1784, a social clim ber named R ohan and a prostitute named N icole Leguay met in the gardens of V ersailles. N icole was a

15 stunning look-alike of M arie A ntoinette, and she w as indeed believed to be the queen by R ohan that night. To get on M arie's good side— a necessary evil for anyone w ith social am bitions at V ersailles— R ohan w as led to believe that if he procured a fabulously bejew eled necklace on her behalf, it w ould be a great favor.

The scam w as revealed w hen jew elers B oehm er and B ossange inquired directly to M arie A ntoinette over paym ent for the grandiose diam ond necklace. They presented her w ith an invoice that she had apparently signed

- 20 (though it w as actually a clever forgery). The queen w as furious and had R ohan arrested and m arched off to the B astille. Y et, in addition to the countless aristocrats w ho sued to the king on R ohan's behalf, at one point over 10,000 people came to
- 25 the doors of the B astille dem anding R ohan's release. He was eventually acquitted, much to the queen's dismay.

The consequences of this affair were severe for Marie Antoinette. The mere fact that the queen of France

could be so easily m istaken by a noblem an for a com m on street prostitute— one w ho engages in underhanded, nocturnal dealings to obtain absurdly expensive jew elry— w as incredibly dam aging to her already blackened reputation. Furtherm ore, as this hatred of the queen began to boil over, it became inevitable that it w ould spill onto the monarchy itself. Though Marie would alw ays be the 30 ultimate villainess, she could never be completely untangled from Louis and, thus, from the monarchy itself. She was not a mistress who could be surreptitiously cut away or a political advisor who could be dismissed. She was a queen, and 35 this fact had inescapable consequences.
29. The second paragraph of the passage serves to
 (A) elucidate further the im petus for the public disdain for a public figure (B) contrast two factors that spurred criticism of the queen (C) explain the endem ic corruption of the French court (D) discuss the results of a fam ous scandal (E) detail reasons for M arie A ntoinette's unpopularity as well as the consequences
30. The passage im plies that a significant proportion of the French aristocracy
 (A) w ere jealous of the queen's riches (B) read coffee house pam phlets (C) proved m ore loyal to R ohan than to the queen (D) w ere less literate than the general populace (E) becam e leaders of the R evolution
31.A ccording to the passage,readership of books and pam phlets increased in the late 18th century because
 (A) the education of w om en nearly doubled the num ber of readers (B) the literacy rate tripled during the reign of Louis X V (C) there w ere m ore exciting scandals to w rite about than there had been in previous tim es (D) governm ent censorship had relaxed (E) the num ber of coffee houses increased
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
32.A ccording to the passage,R ohan com m itted forgery had social am bitions had support from the populace
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
33.The author suggests that M arie A ntoinette
underm ined the m onarchy never m et R ohan
E HEARLINGEN AND AND AND AND AND AND AND AND AND AN

a accione co to are bacca on the fellow my reading paccage.	
Q uestions 35–39 are based on the follow ing reading passage.	
arrogant and supercilious prim and m eretricious thoughtful and disinterested sober but lascivious analytical but enthusiastic	
34.The author's tone could best be described as	
☐ had unlim ited legal pow er	

In John D 'Em ilio's essay "C apitalism and G ay Identity," he argues that the em ergence of industrial capitalism led to new opportunities for "free laborers" in the U nited States, leading to various beneficial changes in social conditions. It is clear that there are two overarching them es em ergent from D 'Em ilio's argum ent about the effects of the onset of industrial capitalism: the new abundance of independence, and choice for "free laborers." He implies throughout that these—

5 independence and choice— are the distinct new m arkers of the social conditions resultant from this econom ic shift.

D 'Em ilio argues that capitalism em pow ers laborers as "free" in the sense that they are free to look for jobs and to negotiate contracts and term s of labor. D'Em ilio's critics suggest that he largely sidesteps the problem s that confound free labor ideology and lim it the ability of w orkers to openly negotiate contracts with employers and to accept or reject the conditions offered. The "contract

- 10 negotiations" cited as a sign of freedom by D 'Em ilio are often hardly negotiations at all, but rather highly exploitative arrangem ents that w orkers have little ability to affect. From the first Low ell G irls all the w ay to the m odern third w orld garm ent w orks
- 15described by Enloe's "B lue Jeans and B ankers," it is clear that for m any— particularly w om en,m inorities,and im m igrants— free labor has hardly been free at all.

Such critics also suggest the D 'Em ilio m isrepresents the historical and continued significance of the hom e.The shift from a hom e-based to an industrial econom y— though indeed very drastic— w as hardly as absolute as D 'Em ilio suggests. Indeed, from nannying, to

20housekeeping,to even the "hom e based jobs" described in "B lue Jeans and B ankers," labor is still a very active part of the hom e even today.

In the essay "The Approaching O bsolesce of Housework: AW orking-Class Perspective," Davis spends a great deal of tim e discussing the continuation of labor in the hom e in stark contrast to the assertions of

- D 'Em ilio.W here D 'Em ilio argues that industrial capitalism equated
- to freedom from the hom e,D avis argues that it actually equated to thickening the bars that caged housew ives to the hom e as productive and reproductive labor split further and m ore distinctly apart.D avis argues that
- 25 w om en "w ere the losers in a double-sense: as their traditional jobs w ere usurped by the burgeoning factories, the entire econom y m oved aw ay from the hom e,leaving m any w om en largely bereft of significant econom ic roles."
- 35. The structure of the passage is best described as:
 - (A) A theory is described and supported by additional studies. (B) A theory and a screed against it are provided.
 - (C) A theory is presented followed by a collection of opinions that im pugn it.

- (D) A theory is discussed and its author's credentials questioned.(E) A theory is presented and ridiculed.
- 36. The passage suggests that one argum ent presented against D 'Em ilio's theory is based on
 - (A) com m unism
 - (B) identity politics
 - (C) ethnocentrism
 - (D) sem antics
 - (E) sexism
- 37.In the second paragraph, the author m entions the Low ell G irls in order to
 - (A) illustrate how industrial capitalism eroded w om en's econom ic position (B) challenge an assertion about the im portance of hom e based econom ies (C) rebut the argum ents of D'Em ilio's critics
 - (D) favorably contrast their position to that of third w orld garm ent w orkers
 - (E) support an assertion that w orkers' autonom y is m ore m yth than reality
- 38. The passage suggests that D avis would be most likely to agree with which of the following?
 - (A) Industrial capitalism leads to independence and choice.
 - (B) M inorities in particular had little freedom of choice. (C)

People w ithout econom ic roles are disadvantaged.

- (D) Hom e-based jobs still account for a significant percentage of the overall economy.
- (E) D om estic w ork should be paid.
- 39.W hich of the following would provide the best title for the passage?
 - (A) Industrial C apitalism and the O ppression of Labor
 - (B) D'Em ilio, Enloe, and D avis: A R econciliation
 - (C) A R ejection of D'Em ilio's A ccount of "Free Labor"
 - (D) W om en's Sacrifices for Industrial C apitalism
 - (E) Industrial C apitalism and Freedom For A II

Q uestions 40-42 are based on the follow ing reading passage.

H enri M atisse's *The O chre H ead* represents the artist's exuberant display of his new m astery of a technique once **peculiar** to Picasso.M atisse has learned to artfully separate color and draw ing.The painting depicts a head and shoulders,a bouquet of red flow ers in a dark blue vase sitting upon a bench,a fram ed draw ing of a w om an's head,and an unfram ed painting or draw ing,also of a w om an.B ut w hat is m ost striking about the painting is the w ay M atisse has begun to allow his colors and his form s to play freely, even w hile they are coordinated. The ochre of the head runs

- 5 out past the form .B its of blue from the bench appear in the m an's neckline or along his shoulder. The colors of the various fram es and surfaces of the draw ing on the w all overlap and refuse to be constrained by definite lines of form .A Ithough
 - this technique is not given the kind of free reign Picasso allow s it in his C ubist period or in w orks such as *M inotaur*,it is still a stunning developm ent for M atisse. And he seem s aw are of this fact. The painting's

com position references Picasso's *Still Life w ith Ancient H ead* from 1925, signaling M atisse's aw areness that he is borrow ing from his younger colleague.

- 40. The author uses the w ord *peculiar* to m ean w hich of the following?

 (A) strange
 - (D) shattes
 - (B) abstract
 - (C) unknow
 - n (D) unique
 - (E) appealing
- 41. The m ain idea of the passage is to
 - (A) describe an artistic w ork and its inspiration
 - (B) describe how M atisse surpassed Picasso (C
 -) describe how M atisse developed his style
 - (D) describe a representative exam ple of M atisse's w ork
 - (E) describe the influence of Picasso on the art w orld
- 42.A ccording to the passage, all of the following are true of *The O chre H ead* EX C EPT:
 - (A) The artist did not color betw een the lines.
 - (B) Its arrangement is similar to that of a piece by Picasso.
 - (C) It is considered among the best of M atisse's work.
 - (D) Its colors are m ore constrained than those of *M inotaur*.
 - (E) It depicts household objects.

Q uestions 43-47 are based on the following reading passage.

U S H istory textbooks are far too fact-based and even have the ability to m ake students feel as though all history is m ade up of "Q uick-Facts" and diagram s,not dynam ic events to be critically analyzed. Furtherm ore, it is often the case that textbooks are given undue authority in determ ining the curriculum; m any teachers sim ply "teach the book."

This is particularly disturbing when considering the fact that state comm ittees for choosing textbooks often treat them ,in the words of Sandra Wong, "more like encyclopedias of facts than as cultural products that

- 5 convey values and perspectives" when deciding which ones to pick. In her article "Evaluating the C ontent of Textbooks: Public Interests and Professional A uthority," Wong discusses how textbook committees are rarely concerned with
- 10the actual substance of the w riting in the textbooks they evaluate, and are far m ore interested in things like "charts, illustrations, and introductory outlines."

W hat, then, w ould be a better tool to use in the high school classroom than textbooks or tim elines for creating an effective learning environm ent that could reflect the dynam ic nature of historical study? O ut of all the various alternatives— going to plays, hearing speakers, listening to m usic, using interactive online resources, elucidating connections to students' personal lives by going to local history m useum s or having students w rite autobiographical essays, etc— the m ost prom ising is,

- 15 by far,film .M ovies are a m agnificent w ay into history for even the m ost resistant naysayer of historical study. Film is a hugely popular m edium w ith endless num bers of historically based w orks everything from docum entaries to dram as—
- 20 that not only present facts, but dram atize the hum an relations behind those facts.

The m ain critique presented against the use of historical film in the classroom is,of course,the existence of ram pant inaccuracies and biases laced throughout these film s,not to m ention the agendas of the

- film m akers them selves.H ow ever,som e historians believe that these seem ing flaw s are actually part of the reason w hy film is an ideal teaching tool— not only does it allow students to see history com e to life,and thus interact w ith it dynam ically,as w ell as m ake history im m ediately accessible to a m odern audience because of the techniques used in film m aking,but it can also
- 25 foster deep critical thinking skills if instructors lead dialogues after film view ings about the inaccuracies, the biases, and all of the things that m ake the film not just a record of a historical event, but also a reflection of the m odern m om ent.
- 43.W hich of the follow ing is NOT cited by the passage as an alternative m ethod for historical study?
 - (A) listening to m usic
 - (B) attending a public lecture
 - (C) volunteering at an archeology dig
 - (D) w riting a personal statem ent
 - (E) w atching a film
- 44. The purpose of the passage is to
 - (A) support the film industry
 - (B) criticize governm ent education policies
 - (C) advocate a new process for textbook adoption
 - (D) propose increased use of a particular didactic tool
 - (E) denigrate an established philosophy
- 45.A ccording to the passage, a problem with state committee textbook selection is
 - (A) the lack of education of the com m ittee m
 - em bers (B) m isplaced priorities
 - (C) the dom inance of larger states
 - (D) valuing perspectives instead of facts
 - (E) personal prejudices
- 46. The purpose of the last paragraph is to
 - (A) acknow ledge an insurm ountable obstacle
 - (B) raise and underm ine an objection
 - (C) reassert the need for alternative educational tools (D) adm it a flaw in a preferred alternative
 - (E) advocate m ore interactive instruction
- 47. The passage im plies w hich of the follow ing?
 - (A) Students can benefit from exposure to inaccurate accounts of history. (B) Students today prefer m usic to film.
 - (C) Students today are functional illiterates.
 - (D) Students today prefer charts to opinions.
 - (E) Students today should not be exposed to political agendas.

Q uestions 48–49 are based on the follow ing reading passage.

From assem blages of found objects to bizarre video installations and digital interactive experim ents, m uch of contem porary art has been criticized as cold,unapproachable,im personal,and em otionless. One link between the immediately appealing,expressive paintings that are often the most popular museum attractions and the "brainy" constructivist school of art pioneered in the early twentieth century is the notion of *gesture* as an expressive tool.

Mark di Suvero's *Iroquois* (1983–1999) is composed of several industrial-sized I-beam

M ark di Suvero's *Iroquois* (1983–1999) is com posed of several industrial-sized I-beam s. The m aterials are so heavy and large the artist used cranes and other construction tools to m anipulate and connect the beam s, all of w hich have been painted a bright red-orange. The result is an intruding w ork of alm ost architectural dim ensions that one can im m ediately sense is terribly heavy and som ew hat precarious, yet stable and balanced. A s one contemplates *Iroquois*, w alking in and around its

10 structure, backing aw ay to see it from a distance, the linear form s becam e considerably m ore com plex than one m ight presum e. The tangled steel w as obviously constructed w ith great care, yet each piece seem s to threaten the view er w ith its

w eight and size, jutting out aw ay from the central nexus, daring the entire form to topple over. At the sam e time, the piece seem s to exude stability, balance, even serenity. Iroquois resonates with an energy born not of

the physical quality of the sculpture,w hich is quite passive and stable,but rather of the *gestural* quality of the form s.

C onsider each of the answ er choices separately and indicate all that apply. 18.W hich of the follow ing can be inferred from the passage? Som e of the m ost popular m useum attractions are contem porary art installations. Expressive paintings have been considered "brainy." Seem ingly cold and cerebral art can nevertheless m ake use of certain expressive tools C onsider each of the answ er choices separately and indicate all that apply. 19.W hich of the follow ing does the author assert about Iroquois? Paradoxically, it appears to be both stable and unstable. It uses gesture to evoke a sense of energy. Som e interpret it as sim pler than it really is.	
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19.W hich of the follow ing does the author assert about <i>Iroquois</i> ? Paradoxically,it appears to be both stable and unstable. It uses gesture to evoke a sense of energy. Som e interpret it as sim pler than it really is.	
Paradoxically,it appears to be both stable and unstable. It uses gesture to evoke a sense of energy. Som e interpret it as sim pler than it really is.	C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
☐ It uses gesture to evoke a sense of energy. ☐ Som e interpret it as sim pler than it really is.	9.W hich of the follow ing does the author assert about <i>Iroquois</i> ?
Q uestions 50–53 are based on the follow ing reading passage.	It uses gesture to evoke a sense of energy.
	Q uestions 50–53 are based on the follow ing reading passage.

In his *D iscourse on Inequality*,R ousseau posits that early social contract theories establish unjust social and politics arrangem ents that provide only the appearance of legitim acy and equality.

In R ousseau's accounting, the beginnings of the social contract lie in the fears of the rich. In a state of nature, one in w hich there is no government or law to control the interactions of people, the rich w ould have great difficulty protecting the property that they possess. Thus, the rich turn to the mechanism of

5 the social contact to shore up the holdings R ousseau view s as "hoarded." The concept of a social contract is appealing to the poor, because the poor fear death in a state of law lessness and thus seek protection. To obtain

assent to the contract, the

rich focus their rhetoric on a seem ing equality of obligation by creating rules that apply equally to all 10 m em bers of society. This system ,how ever, sim ply system atizes the "theft" the rich had perpetrated on the poor in the pre-law state of nature.

R ousseau then begins to develop his own vision of a social contract, through which he attempts to right these injustices. His first departure from earlier theorists is in the form ation of the sovereign. Rather than members of the state surrendering their rights to another person—an irrational

15 course of action tantam ount to surrendering oneself into slavery— they surrender their right to all m em bers of the society and thus to no one.R ousseau refers to this sovereign as the "general w ill" and it has the task of legislating for the new civil society that is created in the contract.

U nlike early social contract theories,R ousseau's version conceives of property rights that allow for rights of first occupancy to justify claim s,rather than rights of the strongest.In this system ,property can be

- 20 taken only if it has not been previously occupied and only to the degree necessary for the **subsistence** of those taking it,m easures intended as a check to the hoarding of property by force enshrined in earlier contract theory.
- 50.W hich of the follow ing societies would Rousseau be likely to endorse?
 - (A) A society in w hich there is no government or law to control how people interact w ith each other. (B) A society in w hich a primary leader is elected through a fair dem ocratic process.
 - (C) A society in w hich there is only com m unal property, rather than private property.
 - (D) A society in w hich the social contract has been dism antled and replaced w ith rights of first occupancy.
 - (E) A society in w hich a hom eless fam ily could legally m ove into an em pty house they did not purchase.
- 51.It can be inferred from the passage that R ousseau would believe which of the following of a society of men and women living without the primary structures of civilization?
 - (A) Their w ealth w ould inevitably be equally distributed across the population. (B
 -) Those with more wealth would be at risk of losing it to those with less.
 - (C) Property would not be hoarded by those who had the most power.
 - (D) The social contract would not be created in order to protect the material goods of the wealthy.
 - (E) Property w ould only be taken if it had not been previously occupied and w as necessary for the subsistence of those taking it.
- 52. Select the sentence in the second paragraph that explains how a privileged group is able to secure w idespread approval for the system atized "theft" it achieves through hoarding.
- 53. In the context in w hich it appears, *subsistence* m ost nearly m eans:
 - (A) survival
 - (B) enrichm ent
 - (C) protection
 - (D) help
 - (E) opposition

Q uestions 54–56 are based on the follow ing reading passage.

H ow ever, despite its prevalence in everyday conversation, the term *terrorism* is not easily defined.

First,there is the question of target. There is a large debate over w hat the target of terror m ust be.M any w riters believe that the targeting of "innocents" is a key com ponent of terrorism . D ouglas Lackey w rites, "... the com m on soldier is not a terrorist, because the m ajority of his victim s are

- 5 soldiers, and a m inority of his victim s are civilians." A ll bom bs kill things in their target radius regardless of m ilitary status; they are indiscrim inate by nature. Lackey goes on to argue that w hat m akes a bom bing cam paign constitute indiscrim inate killing is the
- 10 targeting of an area w ith a high ratio of non-m ilitary units to m ilitary units. Thus, discrim ination is not in the w eapons used, but in the targets decided upon.

A second controversy is that of circum stance; that is, w hether or not terrorist acts m ust be perform ed in tim es of peace, or if they can include acts perpetrated during w ar. Som e believe that even in a w ar, such as W orld W ar II, terrorist actions can be undertaken. H ow ever, there is

15a view point that in w ar the right to certain types of attack expands,m aking actions that m ight be considered terrorist in other contexts (such as surprise attacks or raids) justified.

The final controversy is that of perpetrator size. This debate largely manifests itself in the question of whether or not state actors can be accused of terrorist action. While A riel Merari acknowledges the possibility of state sponsored terrorism, he decides to narrowly define terrorism as a body of violence perpetrated by sub-state insurgent groups. He does so because, "if the

- 20 definition of terrorism is equally applicable to nuclear w ar, conventional w ar, and guerrilla w arfare, the term loses any useful m eaning." U nlike som e theorists, M erari does not reject state actors because of a pro-state bias, but rather concludes that the broader the term become s, the less useful it becomes in a dialogue.
- 54.Lackey and M erari w ould be m ost likely to agree on w hat judgm ent regarding terrorism?
 - (A) That an individual soldier in a country's m ilitary would not typically com m it terrorist acts in the course of duty.
 - (B) That an attack that targeted prim arily civilians, rather than m em bers of a m ilitary, w ould necessarily be a terrorist attack.
 - (C) That the term *terrorism* is very difficult to define.
 - (D) That terrorism can only be carried out during peacetim e.
 - (E) That a m em ber of an elite branch of a given country's m ilitary could not be said to com m it a terrorist act.
- 55. In the context in w hich it appears, sub-state m ost nearly m eans:
 - (A) operating under a governm ent's orders (B) terrorist
 - (C) insurgent
 - (D) anarchist
 - (E) nongovernm ental
- 56.Each of the follow ing is m entioned in the passage as a reason that the term *terrorism* is difficult to define EX C EPT:
 - (A) the nature of the targets of the act
 - (B) its prevalence in everyday conversation
 - (C) w hether the act in question occurs during w artim e or peacetim e (D) w hether governm ental bodies can be terrorists
 - (E) the fact that its usefulness as a term is inversely proportional to its inclusiveness

1	estions 57–58 are based on the follow ing reading passage.
	The A frican A m erican w riter and social critic Jam es B aldw in grew up as an outsider both to the language and culture of pow er, and yet achieved a balance betw een self-expression and the language of pow er. In the 1930's, H ollyw ood m ovies portrayed an optim istic, capitalist, w hite A m erica that dealt w ith w hite issues and em ployed w hite actors. A s a child, B aldw in felt acutely separated from the culture of pow er. In "C ongo Square," B aldw in opens his essay w ith an im portant idea: "A child is far too self-centered to relate to any dilem m a w hich does not, som ehow , relate to him ." W atching the film s of the dom inant culture, B aldw in attem pted to relate the inform ation to his own life, connecting w ith it how ever he could. R ather than blindly accept the storylines in the m ovies, w hen B aldw in saw a staircase in A Tale of Tw o C ities, he thought, "I knew about staircases." A t the same time, B aldw in distrusted the culture of power: "The civilized do not intended."
	to change the status quo these people are not to be taken seriously when they speak of the 'sanctity' of hum an life, or the 'conscience' of the civilized world."
Со	sider each of the answ er choices separately and indicate <u>all</u> that apply.
	an be inferred from the passage that B aldw in w ould agree w ith w hich of the follow ing about a 1930's lm that dealt only w ith A frican A m erican issues and em ployed only A frican A m erican actors?
	It w ould be significantly better than m ost H ollyw ood m ovies from the 1930's. It w ould suffer from the sam e kind of problem s as the m ore typical 1930's H ollyw ood m ovies. It w ould be less likely than m ost other 1930's H ollyw ood m ovies to reinforce the predom inant culture.
58.B a	dw in's quotation from "C ongo Square" is used prim arily in order to illum inate w hat aspect of 1930's A m erica?
	 (A) the culture of pow er that B aldw in m istrusted (B) the fact that H ollyw ood m ovies w ere prim arily optim istic and centered on w hite culture (C) the idea that A m erica w as hungry for a w riter such as B aldw in, because its film s focused only on w hite A m erica (D) the alienating effect of film s of the era on black children (E) the concept that children are incapable of deriving any educational value from film s

The Parthenon has long been regarded as one of the great architectural and artistic products of the H igh C lassical Period.Y et, scholars have struggled to reach a consensus interpretation for the m eaning of the Parthenon Frieze. The study of this particular sculptural elem ent of the Parthenon, a continuous band of sculpture that ran round the top of the

5 building's tem ple-cham ber, has proven quite difficult.

Today only 423 feet of the original 524 survive, and of those, 247 feet are housed in the B ritish M useum in London. A nother large section is now in the A cropolis M useum in A thens, and still other pieces reside in

exhibits throughout Europe,m aking it a difficult task to discuss,let alone experience the unified w hole the designers w ished the audience to w itness— a key

10 elem ent in deciphering any w ork of art.

D enied the opportunity to study the frieze as it existed in antiquity, scholars are faced with the burden of reconstructing the visual experience of the monument before they can even begin interpreting it. To do so, an inventory is taken of characters and figure-types represented on the frieze and their arrangement. Then this inventory is compared to historical precedents and placed in its contemporary context in the hopes of using prior examples to decipher its meaning. Considering the various fragments of the Parthenon frieze as a whole and comparing it to

First, it is clear that the frieze is m eant to be thought of as a continuous w hole. This is particularly interesting because it is completely unprecedented in G reek art. C ontinuous friezes on the faces

other G reek artw orks, two aspects of the arrangement im mediately strike the informed viewer.

20 of G reek tem ples generally depicted single subjects, but if continued over all four sides of a building, the four stretches of the frieze w ould generally be them atically separate.

The second unique aspect of the Parthenon frieze has to do w ith the fundam ental nature of G reek art; nam ely that all w orks of art prior to the Parthenon frieze depicted only scenes from m yth and legend.Y et,in this relief,for the first tim e in the history of G reek art,w e find m ortals,leading

25 som e scholars to the conclusion that w hat is depicted is a specific event that actually took place at a specific tim e and place.

59.In the context in w hich it appears, the w ord *inform ed* m ost nearly m eans:

- (A) assiduous
- (B) artistic (C
-) unique
- (D) erudite
- (E) scientific
- 60.W hich of the follow ing w ould be the best title for the above passage?
 - (A) The Parthenon Frieze: An Insoluble Sculptural Mystery
 - (B) The Parthenon Frieze and M ethods of A rtistic Interpretation
 - (C) The Parthenon Frieze: Sui G eneris Stonew ork
 - (D) M ortals in G reek A rt
 - (E) The Parthenon Frieze: C ontinuity of C haracter
- 61.A II of the follow ing can be inferred about the Parthenon from the passage EX C EPT:
 - (A) It was constructed in the High C lassical
 - Period. (B) It has been seen as a great w ork of art.
 - (C) It featured a tem ple-cham ber.
 - (D) It is not known how it looked at the time of its construction.
 - (E) It contained one-of-a-kind sculptural elem ents.
- 62.It can be inferred from the passage that w hich of the follow ing w ould be unique in the w orld of C lassical G reek art and architecture if it w ere discovered to have been created just after the Parthenon?
 - (A) a painting featuring the goddess A thena springing forth from the head of her father, Zeus
 - (B) a room featuring a frieze around the top that depicted a single, continuous narrative on all sides of the room
 - (C) a dram a that used the fam ous myth of Persephone to provide a trenchant com mentary on G reek life

- (D) a frieze featuring a num ber of different characters and figure-types
- (E) a large m ural depicting a beautiful G reek youth crushing grapes to m ake w ine

Q uestions 63-64 are based on the follow ing reading passage.

A single short story can suggest a desired response from the reader. It is a difficult task, though, to create a world within a single short story and then repeat this world again in other stories while maintaining a consistent flow of ideas. Many authors prefer to use the same setting, indeed, often the same characters in each story. Is abel A llende's Diez C uentos' de Eva

5 Luna com es to m ind.In these stories,A llende uses the sm all tow n of A gua Santa as the setting for the entire collection.

W om an H ollering C reek is a collection of short stories by Sandra C isneros.R ather than using the sam e characters or setting throughout the collection,C isneros takes a different approach to relating her stories to one another.M uch of the burden,in fact,is placed on the reader,for the characters change each tim e,as does the setting.Furtherm ore,w hile the characters are

- 10 largely M exican A m erican im m igrant w om en,each character presents a distinct style and literary voice.W hat these w orks have in com m on is m ore intuitive;m ood,circum stance,tim e,tone,and im agery all play a role in creating the w orld in w hich the stories take place.
- 63. The author of the passage would be most likely to agree with which of the following statements?
 - (A) Short story collections depend on the reader to find the com m on thread that ties the stories together. (B) Isabel A llende uses the sam e setting for the m ajority of her fiction.
 - (C) It is possible to create a coherent short story collection if the stories take place in vastly different times and places.
 - (D) Intuition is a m ore im portant aspect of Sandra C isneros's w riting than the characters or the setting.
 - (E) The best short story collections feature som e through line that the reader can follow and that connects the various stories.
- 64.A ccording to the passage,w hich of the follow ing characterizes both short stories by Isabel A llende and short stories by Sandra C isneros?
 - (A) sim ilarities in tone am ong the stories
 - (B) sim ilarities in tim e am ong the stories
 - (C) sim ilarities in characters am ong the stories
 - (D) sim ilarities in setting am ong the stories
 - (E) none of the above

Q uestions 65-66 are based on the follow ing reading passage.

Scottish econom ist A dam Sm ith's *The W ealth of N ations* heralded— or caused— the m arket-based econom ic system that has increasingly become the norm since the book's publication in 1776. Some say that Sm ith's magnum opus was to economics as N ew ton's *Principia M athem atica* was to physics or as D arw in's On the O rigin of Species was for biology.

5 C ertainly the book m ade its im pact in the early U nited States.

1776 predates w ide usage of the term capitalism, now com m only associated w ith Sm ith, and w hich

Sm ith refers to as a "system of natural liberty." Sm ith presented w hat w e today consider Econom ics 101: supply and dem and, and the im portance of specialization and the division of labor.H e also posited that individuals pursuing their own self-interest could

10 unintentionally create a m ore just society by so doing— an idea som etim es referred to as the "Invisible H and."

Even Sm ith's critics do not deny the book's im m ense influence. M urray R othbard levels the criticism that *The W ealth of N ations*, in fact, eclipsed public know ledge of all econom ists—better ones, he says—before Sm ith.

C onsider each of the answ er choices separately and indicate <u>all</u> that apply.	
65.W hich of the follow ing statem ents is not in contradiction w ith the opinions of M urray R othbar as expressed in the passage?	
☐ Sm ith w as possibly the third best econom ist of all tim e. ☐ The W ealth of N ations should not have been as influential as it w as. ☐ A dam Sm ith w as not particularly influential.	
66.W hich of the follow ing w ould be an exam ple of the "Invisible H and" as described by A dam Sm ith?	
 (A) A group of m oviegoers w ho are able to get cheaper tickets for a film by buying their tickets as a group. (B) A society in w hich the division of labor frees certain people to pursue careers that m ight seem im practical in a non-capitalist society. (C) A university in w hich classes are first-com e,first-served,thereby equitably distributing courses according to the passion and dedication of students. (D) A m arket in w hich there are m ore buyers than sellers,thus forcing the price of goods upw ards. (E) A stock exchange in w hich each trader acts according to a different set of inform ation, such that certain com m odities becom e hyped and their prices overinflated. 	
Q uestions 67–68 are based on the follow ing reading passage.	

Fam e and fortune are often associated with virtue, industry, and a host of other attributes. How ever, random strokes of fate often determine such success and said commonly perceived virtues prove irrelevant. For instance, decades after her death, Coco Chanel remains the epitome of French fashion and her name, as well as the company she founded, is known throughout the world. Yet, few realize that she, while undeniably talented, initially succeeded by leveraging her

5 status as a courtesan. As a company ow ner, it would be an understatem ent to say that she was not known for her generous treatment of her employees. During the Nazi occupation, she lived a privileged life at the Hotel Ritz and her lover at the time was a German intelligence operative.

C onversely, there is the exam ple of M adeleine V ionnet, a professional contem porary of C hanel. She is often credited w ith perm anently transform ing fashion through her use of the bias cut— cutting m aterial against

10 the grain of the fabric.In the 1930's,her gow ns w ere w orn by H ollyw ood stars,and her standing w as second to none.She w as also,in m any w ays,an early fem inist,establishing largely unheard of em ployee benefits— such as day care and m edical

care— for her largely fem ale staff. In addition, she lobbied for fashion copyright protections. When the 15 Second W orld W ar broke out, she closed her business and simply retired. Today, she is largely unknown

outside of the fashion industry.

- 67. The author w rote the passage to posit w hich of the follow ing?
 - (A) that the relationship betw een virtue and success is inverse
 - (B) that an inferior designer w as m ore successful than a superior
 - one (C) to contrast the aesthetic of C hanel to that of V ionnet
 - (D) to suggest that no causal relationship exists betw een personal qualities and professional legacy
 - (E) to contrast the difference betw een transitory and lasting success
- 68. The author discusses the em ployee benefits offered by V ionnet in order to
 - (A) em phasize V ionnet's anti-N azi politics
 - (B) illustrate V ionnet's adm irable qualities
 - (C) highlight C hanel's reputed drug use and collaboration
 - (D) dem onstrate the econom ic burden of French socialist policies
 - (E) provide details that bolster V ionnet's fem inist credentials

Q uestions 69-70 are based on the following reading passage.

D uring the 1960's and 70's, scientists were concerned and puzzled by a large gap in the hum an fossil record. The "aquatic ape theory" gained prominence as an explanation for this gap. This theory posited that primitive hum ans were forced toward a littoral lifestyle by competition for arboreal resources. A nalogies were made to seal populations, who sleep on

5 land at night but spend m ost of their days in coastal w aters. Proponents pointed to various physiological hum an attributes, such as bipedalism and the w ebbing betw een hum an toes, as extant adaptations.

H ow ever, the aspect of the theory that captured the public im agination and undoubtedly boosted its standing w as the point that this hypothesis explained hum an hairlessness; as w ith dolphins, this stream lining w ould facilitate sw im m ing and diving. Proponents noted that the rem aining body

10hair would match the flow of water, and extreme advocates explained the gender difference in hair by suggesting that females much more rarely ventured out of the shallows and into the putatively more dangerous forests and savannahs.

N onetheless, despite the popular stature of the theory, the scientific com m unity alm ost unanim ously rejects it as m ere conjecture not only because of the lack of supporting evidence but also because its claim s do not w ithstand scrutiny. W hile bipedalism does facilitate sw im m ing, it is even m ore of an

- 15 advantage in terrestrial pursuits. Further, biom echanical analysis indicates that hum ans rem ain such inadequate sw im m ers that they could not so succeed. A s for hairlessness, critics point out that other sem i-aquatic m am m als actually
- 20 have dense fur and/or barrel shaped torsos for heat retention. Today, the theory, while still championed by a prominent writer but non-scientist, has no serious support among mainstream-trained paleoanthropologists.
- 69. The passage im plies that, according to the theory, a m ale aquatic ape would most likely dowhich of the following?
 - (A) spend alm ost all of its time in the water
 - (B) spend its nights in the w ater, but its days partly on land
 - (C) spend its days partly in the w ater, but its nights partly on land
 - (D) spend its days mostly in the water, but its nights on land
 - (E) spend alm ost all its tim e on land

- 70. The author describes a rem aining proponent of the theory as a "non-scientist" in order to do w hich of the follow ing?
 - (A) cast doubt upon her objectivity
 - (B) tout the superiority of com m on sense over academ ics (C) cast doubt upon her expertise
 - (D) cast doubt upon m ainstream paleoanthropologists
 - (E) illustrate the sexism of m ainstream scientists

Q uestions 71–72 are based on the following reading passage.

The Tokugaw a period Japan (1603–1867) serves as a laboratory for organizational behavior historians for the sam e reason that Iceland w orks for geneticists— isolation rem oves extraneous variables. The Tokugaw a shoguns brought peace to a land of w arring feudal lords. To preserve that tranquility, the Tokugaw a shogunate forbade contact w ith the outside w orld, allow ing only a few D utch trading ships to dock at one restricted port. D om estically, in pursuit of the sam e

5 goal,the social order w as fixed;there w ere four classes— w arriors [sam urai],artisans,m erchants,and farm ers or peasants— and social m obility w as prohibited. The ensuing stability and peace brought a com m ercial prosperity that lasted nearly two hundred years.

H ow ever, as psychologists, social historians, and B iblical prophets have all observed, in varying w ays, hum ans inevitably fail to anticipate unintended consequences. In the Tokugaw a period, the fixed social hierarchy placed the sam urai on top; they and the government were essentially supported by levies on

- 10 the peasantry, as the other two classes were demographically and economically inconsequential. However, prosperity brought riches to the commercial classes and their numbers burgeoned. Eventually, their economic power dwarfed that of their supposed superiors, the samurai. Simultaneously, the increasing impoverishment of the samurai adversely affected the finances of the peasantry and the government. By the early 19th century, this imbalance
- 15 betw een social structure and econom ic reality eroded the stability of the society. This condition, in conjunction with increasing pressure for access from foreigners, such as A dm iral Perry in 1853, led to the collapse of the shogunate in 1867. In short,
- 20the success of this im posed order led to its undoing through consequences that w ere beyond the ken of the founders.
- 71. The prim ary objective of the passage is to
 - (A) com pare the Tokugaw a period to modern Iceland
 - (B) dem onstrate the folly of im posing a social order
 - (C) show how A m erican naval pow er ended Japan's isolation
 - (D) illustrate how a society can model a common hum an failing
 - (E) argue that com m erce is m ore successful than m ilitarization
- 72.W hich of the follow ing w ould provide further support for the m ain reason cited for the decline of the Tokugaw a period?
 - (A) a sam urai becom es a successful m erchant
 - (B) a successful artisan becom es a sam urai
 - (C) a sam urai m ust w ork as a bodyguard for an artisan (D) a peasant revolt against the sam urai
 - (E) a m ilitary invasion by A m erican m arines

Q uestions 73–74 are based on the following reading passage.

The W ar of the Spanish Succession,1701–14,began as a quarrel over w hether an A ustrian H absburg or French B ourbon w ould succeed the childless C harles II of Spain. The conflict eventually em broiled m ost of Europe, w ith A ustria, England, H olland, and Prussia the m ajor pow ers opposing France, Spain, and B avaria. For centuries afterward, school children learned of the D uke of M arlborough's victory at B lenheim, the m ilitary brilliance of Prinz Eugen of Savoy, an

5 independent territory east of France, as well as the opposing brightness of Louis X IV of France, known as the Sun K ing, who also built the famous palace at V ersailles. Today, how ever, virtually all those names would elicit only blank stares.

A Ithough this w ar and its personages have now vanished into obscurity, its effects greatly affected the course of European and w orld history. The Treaty of U trecht, w hich ended the w ar in 1714, ceded the Spanish island of G ibraltar to England. The "R ock of G ibraltar" became an invincible B ritish fortress that

10 controlled the M editerranean and thus w as of param ount im portance in both w orld w ars.C onversely,the sam e treaty elevated Prussia to a kingdom ,thus setting in m otion a chain of events that led to a unified G erm any under a Prussian K aiser

15 insteadlikely. of one governed by the A ustrians, arguably m aking the bloodshed that consum ed the 20th century m ore

- 73. The author im plies that a possibly negative aspect of the Treaty of U trecht was
 - (A) aw arding G ibraltar to the B ritish
 - (B) reducing the D uke of M arlborough to obscurity (C) elevating Prussia to a kingdom
 - (D) failing to resolve the Spanish succession
 - (E) unifying G erm any
- 74.W hich of the follow ing m ust be true, according to the passage?
 - (A) N ot all of the im portant m ilitary personages were from m ajor powers. (B) The battle of B lenheim was the most important engagement of the war. (C) England was the victorious power.
 - (D) France w as defeated in the w ar.
 - (E) The transfer of G ibraltar w as the m ost im portant result of the w ar.

Q uestions 75-76 are based on the follow ing reading passage.

M ichael Lew is,the A m erican journalist and non-fiction w riter,originally studied art history as an undergraduate and w orked for a prom inent art dealer before obtaining a m asters degree in econom ics at the London School of Econom ics.A fter a short stint at Salom on B rothers,he w rote *Liar's Poker*,w hich becam e a trem endous success.H ow ever,his fam e and fortune continued to arc upw ard w ith the publication of *M oneyball* and *The Big Short*.Som e argue that his education in the hum anities,in addition to finance,greatly contributed to the popularity of his w ork.H ow ever,m ost adherents of that view are ensconced in ethereal rather than com m ercial disciplines.

A n alternative explanation exists. A Ithough baseball and W all Street are not commonly associated, Lew is's works concerning both those topics share more than the common them e of lucre. A ll the

books cited above focus on m avericks "gam ing the system ." Lew is's protagonists, such as B illy B eane of the
10 sm all m arket O akland A thletics and the sm all,out of the establishm ent traders that bet against m ortgage derivatives, are sm art non-conform ists w ho rebel against m onolithic system s by exploiting inherent inconsistencies. Such a them e
echoes the A m erican nation-building construct— lone, free individuals w inning against great odds by
em ploying com m on sense and ingenuity. This is a story line that A m ericans hear from birth; it is no w onder 15
that Lew is's books are popular despite subjects that are not necessarily of universal interest. Further support
for this thesis is that <i>M oneyball</i> became a major motion picture and a film of <i>Liar's Poker</i> is in
developm ent. O f course,unlike baseball gam es,such 20 debates can never be definitively scored.
75. The author prim arily does w hich of the following?
(A) contrasts two opposing theories for a process
(B) discusses two suppositions and im plicitly favors the latter
(C) details two programs and definitively prefers the latter
(D) describes a w riter's w ork and its dearth of popularity
(E) outlines the biography of a w riter and critiques his w ork
76. The author does all of the follow ing EX C EPT:
(A) em ploy an idiom atic expression
(B) describe the protagonists in question
(C) reference popular culture as evidence
(D) discuss the parallels shared by tw o professions(E) m ention his subject's form ative influences
(L) III ention his subject s form alive initiaences
Q uestions 77–78 are based on the follow ing reading passage.
The term <i>free rider</i> originates from the idea of som eone w ho rides public transportation w
ithout paying the fare. The <i>free rider problem</i> is w hat results w hen too m any people do this: the
transit system will go bankrupt. More broadly, the <i>free rider</i> is someone who uses or enjoys the benefits of something without paying, or takes more than his or her share of a public
5 good. Free riders can cause others to curtail their ow n contributions, not w anting to be taken advantage of
In som e cases, the <i>free rider problem</i> is view ed as a necessary cost of governm ent. W hen citizens pay
for national defense or environm ental protection, everyone benefits, even those who evade paying taxes.
for flational defense of environin ental protection, everyone benefits, even those who evade paying taxes.
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
1
77.W hich of the following examples matches the definition of a free rider problem as described in the passage?
A skateboarder grabs onto the back of a car and is able to travel effortlessly for over a
m ile before letting go.
A senior citizen pays less for a m ovie ticket than do the other people in the theater.
lacktriangle A yearly school bake sale based on the honor system is suspended w hen too m any
people take food w ithout paying.

8. The author of the passage would be most likely to agree with which of the following statements?
 (A) Free riders cannot be blam ed for their actions, because they are an inevitable part of any government. (B) Free rider problem s are not w orth w orrying about, because they are an inevitable part of any government. (C) There are at least some situations in which the free rider problem should not be view and as an inevitable part of government.
view ed as an inevitable part of governm ent. (D) N ational defense is a perfect exam ple of w hy free rider problem s need to be stam ped out as quickly as possible.
(E) Free riders are m orally at fault, and ought to be punished.
Q uestions 79–80 are based on the follow ing reading passage.
In 2010,a team of biologists led by Svante Paabo announced evidence that m odern hum ans interbred w ith N eanderthals som e 60,000–100,000 years ago. These researchers com pared the full sequence of N eanderthal D N A to that of five m odern hum ans from C hina, France, sub-Saharan A frica, and Papua N ew G uinea, and looked for D N A shared by both N eanderthals and non-A frican m odern hum ans, but not by sub-Saharan A fricans. B ecause N eanderthals and m odern hum ans are known to have diverged hundreds of thousands of years before m odern hum ans left A fric Paabo attributed any such com m on D N A to interbreeding in Eurasia. Paabo's team announced that the modern hum ans from C hina, France, and Papua N ew G uinea all have the sam e proportion of N eanderthal D N A, and inferred that interbreeding with N eanderthals m ust have taken place before the ancestor population of those Eurasians divided. Paabo m aintained that these two events, the migration of modern hum ans out of A frica and the 10 division of the Eurasian population, m ark the interval during w hich the interbreeding m ust have taken place, and that for roughly forty thousand years of that w indow, N eanderthals and modern hum ans lived near one another in the M iddle East. The team's conclusions were answered with skepticism on a num ber of fronts. C ritics pointed out that an earlier report reached similar conclusions based on N eanderthal sam ples later found to be contam inated with 15 D N A from modern hum ans. Paleontologists and archaeologists charged that the conclusion w as unsupported by archaeological evidence. Further, Paabo's team found evidence only of N eanderthal D N A in modern hum ans, not of
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
'9.The passage im plies that w hich of the follow ing claim s is true?
☐ M odern hum ans and N eanderthals share a com m on ancestor.
☐ M odern hum ans and N eanderthals interbred.☐ M odern hum ans and N eanderthals lived near one another approxim ately 80,000 years ago.
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.

80. The passage suggests w hich of the following is true of Paabo's critics?
☐ they doubt Paabo's integrity
☐ they ignore D N A evidence
they som etim es appeal to archaeological evidence
•
Q uestions 81–82 are based on the follow ing reading passage.
· · · · · · · · · · · · · · · · · · ·
Though an echo is a fairly sim ple acoustic phenom enon— a reflection of sound w aves off som e hard surface— it occurs only under very specific circum stances. Im agine a listener standing at the sound source. The reflecting object m ust be m ore than 11.3 m eters aw ay from the sound source, or the echo will return too soon to be distinguishable from the original sound. A reflecting object m ore than about 170 m eters, on the other hand, will rarely produce an audible echo, since sound dissipates with distance. Further, multiple surfaces each reflecting the same original sound to the same listener will likely not produce an echo, but a reverberation, a persistent
sound gradually decreasing in am plitude until the listener can no longer hear it.C om m on though echoes are then,it is unsurprising that som e sounds seem to
10 produce no echo.
A centuries-old tradition holds that a duck's quack does not echo. Scientists in the A coustics D epartm ent of the U niversity of Salford set out to test and explain this claim . They recorded a duck, D aisy, first in an anechoic cham ber filled w ith sound-absorbing fiberglass w edges, then in an echo cham ber w ith the acoustical properties of a sm all cathedral. The sound of the duck quacking in the anechoic cham ber w as clearly different from the sound of the duck quacking
15 in the echo cham ber,but the researchers acknow ledged that it w ould be very hard to recognize an echo in the latter recording w ithout having very recently heard the form er.Partly this is because a quack isn't a single burst of sound,but fades in and out,so that the beginning of the echo m ight blend w ith the end of the original sound.Partly it is because a quack is just not very loud.The Salford researchers also 20 speculate that m ost people m ay sim ply not encounter ducks in proxim ity to reflectors such as buildings or m ountains.A further com plication,though one the researchers leave unrem arked,is that people generally hear ducks in flocks,w here one quack m ight be indistinguishable from the echo of another.
81.A ccording to the passage, all of the follow ing m ake an audible echo unlikely EX C EPT:
(A) a reflecting surface too close to the original
sound (B) a reflecting surface too far from the
original sound (C) m ultiple reflecting surfaces
(D) m ultiple listeners (E) sound-absorbing m aterials
(L) Sound-absorbing in atenais
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
82. The passage suggests that w hich of the follow ing w ould propagate echoes?
an anechoic cham
ber a cathedral

	a m ountain
Q ı	uestions 83–85 are based on the follow ing reading passage.
5	Sim one de B eauvoir's fem inism w as heavily inform ed by existentialist ethics. W ithin this fram e of thought, good and evil are expressed in hum an beings' transcendence and "im m anence," respectively. H um an existence can only be justified via continually expanding into the future by engaging in freely chosen projects — i.e., transcendence. Transcendence is thus a general goal for hum an beings, w hile its opposite— im m anence— is considered a degradation of existence, from "liberty into constraint." Freely chosen, im m anence is a m oral fault, but w hen inflicted, it is described as "oppression." In a social environm ent w here w om en are prevented from choosin and engaging in serious projects because of their status as w om en, their ability to transcend is system atically thw arted, so transcendence becomes a
1	Ospecifically fem inist goal.D e B eauvoir explains that w om en are view ed as intrinsically passive and im anent, in opposition to m en w ho are m eant to be active and transcendent. In the society observed by de B eauvoir, "[w om en] live attached through residence, housew ork, econom ic condition, and social standing to certain m en— fathers or husbands " It is specifically w om en w ho are attached to m en— not m en to w om en nor w om en and m en
1	5to each other. As de Beauvoir notes, the nature of this relationship, overlapping the assumption that men are the active transcendent half of hum anity, leaves women in a position of forced immanence.
Co	onsider each of the answ er choices separately and indicate <u>all</u> that apply.
83.A	ccording to the passage,Sim one de B eauvoir believed w hich of the follow ing?
	 ☐ In society,w om en are attached to m en. ☐ W om en are intrinsically passive and im m anent. ☐ Self-constraint is w orse than im posed constraint.
Co	onsider each of the answ er choices separately and indicate <u>all</u> that apply.
84.A	ccording to the passage, im m anence is alw ays
	a m oral fault a degradation of existence oppression
85.TI	he passage could best be described as w hich of the follow ing?
	 (A) an explanation of existentialist ethics and transcendence (B) an explanation of fem inist theory and fem ale im m anence (C) a diatribe about im m anence and a social injustice (D) a description of a philosopher's influences and fram ew ork (E) an outline of social structure and conflicts

Q uestions 86-87 are based on the following reading passage.

W hat differentiates science and non-science? A ccording to the m odern definition of science, the A ncient G reeks w ere not scientists but rather philosophers. Their investigations w ere perform ed in an unscientific m anner, as is illustrated by A ristotle and his conclusions about the properties of w ater. B efore studying w ater, A ristotle discovered that m atter existed in three m ain categories: solid, liquid, and gas. H e concluded that a solid w as the least expanded of the three and verified this by seeing that a solid alw ays sank in a liquid of the same type. How ever, when A ristotle encountered w ater, he saw that it had properties that contradicted his previous categorization. In order to reconcile this disparity, he postulated that w ater w as an exception and that the shape of solid w ater caused it to stay afloat. This, of course, is incorrect.

To the contrary, the studies of G alileo G alilei follow ed a certain self-m ade doctrine for gathering data and perform ing scientific experim ents. G alileo's m ethod forced one to first form a hypothesis, then design an 10 experim ent to confirm or deny this hypothesis, and then accept or discard the hypothesis based on one's findings. U sing this m ethod, G alileo disproved m any com m only held m isconceptions about the rules of physics. In one of his m ore fam ous experim ents, G alileo hypothesized that the Earth's gravitational field resulted in the same acceleration

15 of all objects,regardless of m ass. To prove this, he dropped two iron balls of different m asses from an elevated place and show ed that gravity pulled on both m asses evenly. This experim ent disproved the commonly held belief (at the time) that an object with greater m ass would fall to the ground more quickly.

86. The author's prim ary purpose in w riting this passage is to

- (A) explain the m odern distinction betw een science and non-science via historical examples (B) criticize the research m ethods em ployed by the A ncient G reek philosophers
- (C) illustrate the im portance of following the scientific m ethod as invented by G alileo G alilei
- (D) com pare and contrast the historical definition of science with the modern-day definition
- (E) argue that the findings of G alileo are m ore im portant than those of A ristotle

87.W hich of the follow ing can be properly inferred from the passage?

- (A) Solid w ater has the sam e shape as other solid form s of m atter.
- (B) When dropped from the same height, an object with greater mass will fall to the ground more quickly than an object with less mass.
- (C) O ne cannot be both a scientist and a philosopher.
- (D) If A ristotle had follow ed G alileo's m ethod, he w ould have rejected his hypothesis that solids w ere the least expanded form of m atter.
- (E) In the absence of the scientific m ethod, one cannot disprove com m only held m isconceptions about the rules of physics.

Q uestions 88-90 are based on the following reading passage.

Lousia M ay A lcott's *Little W om en* opens to a com m on scenario— the w om en knitting at hom e and w aiting for new s from the m an of the fam ily,w ho is at the w ar front. The fam ily dynam ics of *Little W om en*, as a m icrocosm of the larger society, are m arked by explicitly articulated m ale dom inance. First of all, the division of labor has it so that w om en are confined to the dom estic sphere w hile m en step into the public sphere and engage in activities there, returning to the

5 dom estic sphere at night to be cared for by their spouse or fem ale children. A lcott describes the character of M eg,a young w ife,as "often ... lonely," w ith her husband "absent till night,and nothing to do but sew ,or read, or potter about." M arm ee later tells M eg that she ought to "take [her] part in the w orld's w ork," even though she is a w om an.U ltim ately, how ever, "taking her part in the w orld's w ork" m eant no m ore than talking to her husband about politics w hilst rem aining at hom e, allow ing him to continue to be the m ediator betw een 10 M eg's individuality and the w orld at large. C hapter 38 of the novel w raps up the issue by concluding that "a w om an's happiest kingdom is hom e,her highest honor the art of ruling it [as a] w ise w ife and m other," such position being "the sort of shelf on which young wives and mothers may consent to be laid, safe from the restless fret and fever of the 15 w orld." Som e have read A lcott's rom antic glorification of w om en's confinem ent as sarcastic, but either w ay, her loving readers m ust have agreed with the statem ent, for the novel has never been out of print. 88. The prim ary purpose of the passage is to (A) explain the continued popularity of a novel (B) detail the dom estic confinem ent of 19th century w om en (C) analyze the sociological im plications of a w ork of art (D) argue for the em ancipation of w om en (E) indict the politics of a literary w ork 89. The passage im plies that for a w om an to effectively "take [her] part in the w orld's w ork," she m ust do w hich of the follow ing? (A) talk to her husband about politics (B) rule her hom e (C) sew ,read, and potter about (D) find a m ediator to interact with the world at large (E) leave the house C onsider each of the answ er choices separately and indicate all that apply. 90. The passage im plies w hich of the following about A m erican society at the time that Little W om en depicts? it w as w artim e lt glorified w om en's confinem ent the vast m ajority of public activities took place during the day

Falsifiability is the term coined by K arl Popper for the idea that a hypothesis or theory addresses the observable w orld only insofar as it can be found false as the result of som e observation or physical experim ent. For instance, the proposition "A II cats have fur" can easily be proven false w ith the observation of a single hairless cat. The proposition "The w orld w ill end in the year 3035" is im practical to falsify, but still passes the test of falsifiability in that there exists the logical possibility that 3035 w ill come and go w ithout the w orld ending. To the contrary, it is possible to posit

Q uestions 91–92 are based on the follow ing reading passage.

- 5 that everything that happens is the will of Zeus.N o matter what experiment we design—such as praying to Zeus to give us the answer or daring Zeus to strike us with lightning—we can alw ays infer that the result is the will of Zeus.Such a proposition, as
- 10 conceived here, is not falsifiable. Popper claim ed that a falsifiable theory is the only kind that can truly be scientific, or at least useful to the scientific com m unity.

B y that logic,w e can also say that no theory should be form ed that has no chance of being true.H ow ever, seeing as that kind of theory is m uch less likely to be form ed,it is understandable that Popper does not devote that m uch tim e to the criterion of

15 "confirm ability."

- 91.A ccording to the passage, which of the following does not meet the criteria for falsifiability?
 - (A) All birds are black.
 - (B) Earth is the only planet in the universe with intelligent life. (C) It rains on M ars every day.
 - (D) The sun will explode in 100,000 years.
 - (E) N o hum an being lives forever.
- 92. To w hich of the follow ing is the author m ost likely to agree regarding "confirm ability"?
 - (A) It is a m ore im portant theory than falsifiability.
 - (B) It does not have m uch practical, scientific use.
 - (C) It applies to a broad range of theories.
 - (D) It is an unreasonable idea.
 - (E) Popper should have developed this idea along with falsifiability.

Q uestions 93-97 are based on the follow ing reading passage.

A dictionary definition of the term *political* m ight read som ething like, "of or concerned w ith governm ent, political parties, or politicians." Such a definition is not precisely w rong, but rather is outdated and falls short by not accounting for w hat N ancy Fraser calls "the shift from a repressive m odel of dom ination to a hegem onic one." If at some point we believed governments to operate exclusively through law and the threat and enforcement of concrete punishment, such as imprisonment, monetary penalties, etc., and called this and all that directly influenced it "politics," we have now acknowledged the role of hegemony, which legitim izes law and supports the exercise of power.

This is significant because, under the first definition, the only cultural products that can be said to be political m ust explicitly address issues of political partisanship or governance, while under the 10 second definition, all cultural objects can be traced to a certain ideology— in accordance, negotiation, or opposition to hegem ony— and therefore be political.

B ut w e do not feel that w e are discussing politics or view ing politics all the tim e,even if w e are, according to our definition of "the political." This is because even if all subject m atter is (at least potentially) political,not all talk is so.W hen conducting her study on political talk,N ina Eliasoph focused not as m uch on w hat people talked about,but rather on how exactly they talked about things: "w hether

15 speakers ever assum e that w hat they say m atters for som eone other than them selves, ever assum e that they are speaking in front of a w ider backdrop." She cited H anna Pitkin in concluding that "public-spirited conversation happens w hen citizens speak in term s of 'justice'." To use an exam ple from the theater, then, w e can say that w hen a director decides to

fram e her production of A Streetcar N am ed D esire as the story of a w om an w ho is losing her m ind and

- 20 does not get along with her aggressive brother-in-law, she is actively depoliticizing the story, whereas she is actively politicizing it if she decides to frame the narrative as one example of the devastating effects of an old bourgeois morality, a changing
- 25 econom ic system and the social valuing of an abusive m odel of m asculinity.
- 93. The second paragraph of the passage serves to
 - (A) offer an alternative to the definitions previously presented
 - (B) discuss a revision of the definitions previously presented
 - (C) delineate the distinction betw een the definitions previously presented (D
 -) delineate an exception to the definitions previously presented
 - (E) describe the inadequacy of the definitions previously presented
- 94. The author cites A Streetcar N am ed D esire in order to
 - (A) provide a counterpoint to the thesis of the passage (B) illustrate an aspect of the subject under discussion (C) advocate politicizing a w ork of art
 - (D) illustrate the universality of politics
 - (E) illustrate a fallacy of a definition
- 95.A ll of the follow ing provide exam ples of the hegem onic m odel of dom ination EX C EPT:
 - (A) a penitentiary sentence for assault
 - (B) a sum m ary execution for treason
 - (C) a large fine for insider trading
 - (D) censorship of an art exhibit
 - (E) a successful m ilitary coup
- 96.A ccording to a theory presented in the passage,a person is engaging in public interest conversation if that person discusses w hich of the follow ing?
 - (A) justice
 - (B) theater
 - (C) sexism
 - (D) economics
 - (E) politicians
- 97. Select a sentence from the first or second paragraph that levels an explicit criticism.

Q uestions 98–99 are based on the following reading passage.

Explanationism is the idea that prediction is,in itself,insufficient to confirm a theory. To adequately confirm a theory, according to an explanationist, is to see how well it describes events and phenomena that have already been observed. Stephen Brush, a staunch explanationist, would say that a correct prediction does not necessarily confirm the truth of a theory; it could be the case that a theory predicts something and yet does not provide the best explanation of it. Take, for example, the difference in the perspectives of C opernicus and Brahe on the solar system.

5 C opernicus's m odel of the solar system w as heliocentric, positing that all of the planets revolve around the sun. B rahe's theory stated that all of the planets revolved around the sun, *except* the earth, w hich w as

im m obile, and that the sun actually revolved around the earth. Even if both accurately predicted future m ovem ents of the planets, it is easy to see how C opernicus's theory has less of an 'ad hoc' quality— and, of course, provides a superior explanation of the

- 10 m echanism s of the solar system .It is certainly true that a theory can successfully predict a certain event, yet fail to provide an adequate explanation for w hy it happened, or perhaps even stum ble on the prediction m ore by accident than by m anner of
- 15 understanding the m echanism behind the event.

A predictionist would argue that while a theory can provide a perfect explanation for som ething happening, a theory cannot be tested for understanding or explaining the underlying mechanism of a phenomenon unless it can also predict some event that confirms that exact mechanism at work. For instance, a physicist might study the formation of solids and posit that all solids will sink if they are placed in a liquid of the same element, because the solid is denser than

- 20the liquid.G iven this prem ise,w e discover that the physicist's prediction is true,and even once he stages an experim ent w ith ice and w ater,he w ill not be proven w rong,but rather w ill have discovered a unique property of solid w ater.
- 98.W hich of the following best expresses the main idea of the passage?
 - (A) Explanationism is a superior theory to predictionism.
 - (B) Two very different ideas can both be used to successfully investigate scientific theories.
 - (C) C opernicus's model of the solar system was more accurate than B rahe's due to explanationism.
 - (D) O ne cannot posit a physical theory w ithout predictive pow er or previous observations.
 - (E) A predictionist and an explanationist will always diverge on whether a scientific theory is correct.
- 99.W hich of the follow ing m ost accurately states the author's reason for citing the C opernicus and B rahe m odels of the solar system?
 - (A) It shows that a theory without predictive power can never be tested and verified.
 - (B) It reveals that some theories can have more or less of an 'ad hoc' quality.
 - (C) It shows that two different theories can never yield the same predictions for future events.
 - (D) It is used to support the idea that a m ore complicated model will always fail to a simpler model.
 - (E) It provides an exam ple of when a theory can correctly predict future events but not offer the best explanation.

Q uestions 100-105 are based on the following reading passage.

Subatom ic particles can be divided into two classes: ferm ions and bosons, term s coined by physicist Paul D irac in honor of his peers Enrico Ferm i and Satyendra B ose. Ferm ions, which include electrons, protons, and neutrons, obey the Pauli exclusion principle, according to which no two particles can inhabit the same fundamental state. For example, electrons cannot circle the nuclei of atoms in precisely the same orbits, loosely speaking, and thus must occupy more and more

distant locations,like a crow d filling seats in a stadium .The constituents of ordinary m atter are ferm ions; indeed,the fact that ferm ions are in som e sense m utually exclusive is the m ost salient reason w hy two things composed of ordinary m atter cannot be in the same place at the same time.

C onversely, bosons, which include photons (particles of light) and the hitherto elusive H iggs boson, do not obey the Pauli principle and in fact tend to bunch together in exactly the same fundamental state, as in

10 lasers, in w hich each photon proceeds in perfect lockstep w ith all the others. Interestingly, the seem ingly stark division between ferm ionic and bosonic behavior can be bridged. A II particles possess "spin," a characteristic

vaguely analogous to that

of a spinning ball; boson spins are m easured in integers, such as 0 and 1, while ferm ion spins are always half-integral, such as ½ and 1½. As a result, whenever an even number of ferm ions group together, that group of

- 15 ferm ions,w ith its w hole-num ber total spin,effectively becom es a giant boson.W ithin certain m etals chilled to near absolute zero,for instance,so-called C ooper pairs of electrons form ;these pairs flow in precise harm ony and w ith zero resistance
 - through the m etal,w hich is thus said to have achieved a superconductive condition. Sim ilarly, helium -4 atom s
- 20 (com posed of 2 electrons,2 protons,and 2 neutrons) can collectively display boson-like activity w hen cooled to a superfluid state. A sw irl in a cup of superfluid helium w ill,am azingly,never dissipate.

The observation that even-num bered groups of ferm ions can behave like bosons raises the corollary question of w hether groups of bosons can ever exhibit ferm ionic characteristics. Som e scientists

25 argue for the existence of skyrm ions (after the theorist Tony Skyrm e w ho first described the behavior of these hypothetical ferm ion-like groups of bosons) in superconductors and other condensed-m atter environm ents, w here tw ists in the structure of the m edium m ight perm it skyrm ions to form.

C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
100.The exam ple of "a crow d filling seats in a stadium " (line 6) is intended to
 expand upon one consequence of the Pauli exclusion principle illustrate a behavior of certain ferm ions describe how electrons circle the nuclei of atom s in concentric, evenly-spaced orbits
101.The author's prim ary purpose in w riting this passage is to
 (A) explain the m echanism by w hich ferm ions can becom e bosons (B) describe the two classes of subatom ic particles (C) provide exam ples of the different form s of m atter (D) explain the concept of particle "spin" (E) argue that m ost m atter is com posed of one type of particle
102.W hich of the follow ing is NOT m entioned as a characteristic of bosons?
 (A) They can be com posed of groups of ferm ions. (B) They are m easured in integer spin. (C) They are the constituents of ordinary m atter. (D) They tend to bunch together in the sam e fundam ental state. (E) They lead to phenom ena such as superconductors and superfluids.
103.W hich of the follow ing can be properly inferred from the passage?
(A) An atom composed of two protons and a neutron would be considered a boson.

(E) Ferm ions cannot behave as bosons unless they are cooled to a tem perature near absolute zero.

(B) Skyrm ions have been discovered in superconductors and other condensed m atter environm ents. (C) Two electrons in an atom cannot circle the sam e nucleus at exactly the sam e distance.

(D) A current through a superconducting w ire will never dissipate.

- 104.A ccording to the passage,w hich of the follow ing describes a difference betw een ferm ions and bosons?
 - (A) Ferm ions cannot inhabit the sam e fundam ental state, whereas bosons bunch together in the sam e

state. (B) Ferm ions contain m any m ore types of particles than bosons. (C) Ferm ions exist in groups, but bosons do not. (D) Ferm ions have integral spin values, whereas B osons have half-integer spin. (E) Ferm ions do not obey the Pauli principle, whereas bosons do. 105.B ased on the inform ation in the passage about the Pauli exclusion principle, to which one of the follow ing situations would this principle be most relevant? (A) Ferm i Energy: The m axim um energy that electrons in a solid will contain in order to avoid having identical energy levels. (B) Particle A ccelerators: D evices that will accelerate charged particles to very high speeds through the application of an external m agnetic field. (C) Q uantum Entanglem ent: W hen particles interact physically and then becom e separated but still have interdependent properties. (D) D ouble Slit Experim ent: A n experim ent that revealed the particle and w ave duality of photons. (E) The Higgs Field: The field produced by the conjectured Higg's particle that would explain w hy m atter has m ass. Q uestions 106–108 are based on the follow ing reading passage. Homo economicus, or economic hum an, denotes the idea of hum an beings as rational, narrowly self-interested agents w ho, given total inform ation about opportunities and possible constraints, seek to obtain the highest possible well-being for them selves at the least possible cost. In the late 19th century, a host of econom ists built m athem atical m odels based on 5 conceiving of real hum ans as *H* om o econom icus. Exponents of *H om o econom icus* tend to acknow ledge that total inform ation is not possible in the real w orld;thus,breakdow n in m odels based on the concept are due to im perfect inform ation held by the self-interested econom ic actors. A m artya Sen has pointed out that H om o econom icus ignores that people can and do com m it to courses of action out of m orality, cultural expectations, and so forth. V eblen and K eynes allege that H om o econom icus assum es far too great an understanding of m acroeconom ics on the part of hum ans. Tversky put forth that investors are not 10 rational: they are unconcerned by sm all chances of large losses, but quite risk-averse regarding sm all losses. B runo Frey points out that hum ans are often intrinsically m otivated, and that such m otivation explains heroism, craftsm anship, and other 15 drives that do not fit neatly into the m odel of a narrow ly focused gain-seeker. C ritics of the psychoanalytic tradition point out, som ew hat obviously, that hum ans are frequently conflicted, lazy, and inconsistent. C onsider each of the answ er choices separately and indicate all that apply. 106.W hich of the follow ing phenom ena would exemplify B runo Frey's critique of H om o econom icus?

A w oodw orker spends m onths on the delicate inlay of a door, know ing that his m any hours of hard w ork w ill inevitably result in a higher price w hen he com es to sell the piece.

A television journalist often travels to dangerous countries all over the w orld because he is contractually

obligated to do so, and his ratings are higher the m ore dangerous his exploits appear to

	An econom ist dedicates her career to illustrating a fundam ental flaw in a particular theory,though she knows there will be no tangible reward for her efforts.
107.	W hich of the follow ing best describes the m ain idea of the passage?
	 (A) Homo econom icus is a useful,if theoretical,actor to use in the form ation of m athem atical m odels. (B) Homo econom icus is a fundam entally flaw ed and thus theoretically useless construction,for a host of reasons. (C) Homo econom icus is often criticized by those w ho don't fully understand its function in econom ic theory. (D) Homo econom icus is a problem atic construction, because it simplifies hum an motivations and is overly optim istic about hum an understanding. (E) Homo econom icus fell out of favor with most econom ists in the 20th century due to its many incorrect assumptions about hum anity.
С	onsider each of the answ er choices separately and indicate <u>all</u> that apply.
108.\	 W hich of the follow ing is a com plaint leveled against the theory of H om o econom icus posited by certain econom ists in the late 19th century? It assum es that the average person know s a lot m ore about the general w orkings of the econom y than he or she actually does. It assum es that hum ans experience a proportional and linear em otional response to all risks and rew ards. It assum es that the prim ary im petus behind hum an decision-m aking is not predicated on ethics or cultural m ores.
Qı	uestions 109–110 are based on the follow ing reading passage.
5	W hile critics contend that the view s expounded on in <i>Against M ethod</i> are tantam ount to scientific anarchism ,its author Paul Feyerabend m aintains that his view s stem not from a desire to prom ote scientific chaos so m uch as from a recognition that m any of the fundam ental tenets of science— rationality,em piricism , and objectivity,for exam ple— are as seriously flaw ed as the "subjective" paths to truth that scientists are quick to repudiate . Feyerabend goes further by arguing that m any m ethods that are now condem ned in the scientific com m unity played a critical role in historical m om ents of scientific progress. The fact that these m ethods helped science advance in the past indicates that scientists should think tw ice before they condem n them .

be.

that the earth revolved around the sun (and not the other w ay around) w as the use of m ethods m ost m odern scientists w ould deem highly suspect. For exam ple,in attem pting to explain w hy the rotation of the earth did not cause a rock dropped from a tow er to

geocentric cosm ological m odel in favor of the updated heliocentric m odel. Feyerabend goes to lengths to 10 point out that w hat ultim ately allow ed G alileo to succeed in convincing the W estern w orld

M uch of Against M ethod is a case study of the events surrounding G alileo's single-handed rejection of the

follow a curved, rather than a straight, path, G alileo relied on several as-yet unproven hypotheses about the

15 law s of m otion, essentially begging the question for his own position. A dditionally, his published w orks

- display a rhetorical style that reads m ore like propaganda than like scholarly w ork.B y show ing that these m ethods w ere critical to a crucial
- 20scientific advancem ent, Feyerabend casts doubt on w hether these "unscientific" practices really deserve the criticism they so often garner.
- 109.R eplacem ent of the w ord *repudiate* in line 5 of the passage w ith w hich of the follow ing w ords w ould results in the LEA ST change in m eaning in the passage?

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(A) overrule (B) em brace (C) underscore (D) decry (E) debate
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- 110. The passage im plies that Feyerabend m akes use of a "case study" (line 10) prim arily in order to:
 - (A) dem onstrate that since a canonical exam ple of scientific progress itself m ade use of practices now deem ed unscientific, scientists ought to revise their account of w hat is and is not acceptable scientific practice
 - (B) show that G alileo,in his attempt to prove that a rock dropped from a tow er follow ed a straight,not a curved path,w as guilty of m any of the same errors in reasoning that m ake science controversial today
 - (C) underscore the notion that if science w ants to keep thinking of itself as a field that is open to "subjective," as w ell as "objective," paths to truth, it needs to adopt som e of the techniques that w ere prevalent in G alileo's tim e
 - (D) back up the claim that tautological reasoning is acceptable only when used in the service of supporting hypotheses that have yet to be proven
 - (E) dem onstrate that any endeavor in the philosophy of science that uses exam ples from history to support its claim s is ultim ately doom ed to failure

Q uestions 111–115 are based on the follow ing reading passage.

In traditional theater form s,the roles of perform er and audience are com pletely separate,so that perform ance space can be said to encom pass an actors' sphere and a spectators' sphere. Even when perform ers move out into the audience or when there is scripted audience interaction, spectators do not become perform ers. Finally, while stories may open up the imagination or excite audiences, according to Augusto Boal, they discourage political action by providing

im agination of excite audiences, according to A ugusto B oal, they discourage political action by providing

5 catharsis. The passive spectator follows the play's em otional arc and, once the action concludes, finds the issue closed. Boal reminds us that our theater etiquette creates a kind of culture of apathy where individuals do not act communally, despite shared space, and remain distanced from art.

W orkshop theater, such as B oal's Im age Theatre and Forum Theatre, is a response to that. In the w orkshop form , perform ance space is created for a select group of people, but the perform ers' sphere and the

- 10 audience's sphere are collapsed: everyone is at once theater m aker and w itness. In Im age Theatre, participants will come up with a theme or issue and arrange them selves into a tableau that depicts what that issue looks like in society today, versus
 - w hat the ideal situation w ould be. They then try to transition from the current im age to the ideal im age in a w ay that seem s plausible to all the participants. Forum Theatre, on the other hand, creates a narrative skit depicting
- 15 a certain problem .A fter the actors have gone through the action of the play once,a facilitator,know n as the joker (like the one in a pack of cards),encourages those w ho have w atched the story to w atch it again and to

stop it at any tim e to take the place of the protagonist. The aim is to find a solution to the problem , realizing along the w ay all of the

20 obstacles involved. In Forum Theatre, just as in Im age Theatre, there is not alw ays a solution. The main goal of this form, then, is to engage in the action, to reflect, and to understand particular issues as being part of a larger picture, thus using art to re-cast what seem like private troubles in a public, political light.

The main reason B oal developed these workshop styles was to grant audiences agency so that they may

- 25 create w ays to free them selves of oppression. Because he found theater audiences to be locked into a passive role—just like he found the oppressed coerced into a subservient role in relation to their oppressors—he created the "spect-actor," or someone w ho simultaneously w itnesses and creates theater.
- 111. The second paragraph of the passage serves to
 - (A) elaborate on the topic of the first paragraph
 - (B) provide a rationale for an artistic endeavor
 - (C) discuss an artistic answ er to a passive culture (D) explain the theater's lack of appeal
 - (E) evaluate tw o contrasting styles of theater
- 112. The author uses the w ord agency to m ean
 - (A) profit
 - (B) organization
 - (C) publicity
 - (D) pow er
 - (E) hegem ony
- 113.W hich of the follow ing w ould B oal consider a "spect-actor"?
 - (A) a person w ho engages in political action
 - (B) an audience m em ber w ho finds catharsis in a play (C) any person placed in a subservient role
 - (D) any actor
 - (E) a participant in an Im age w orkshop
- 114.A ccording to B oal, all of the follow ing are disadvantage of traditional theater form s EX C EPT:
 - (A) Such productions prevent the actors from going into the audience. (B) Such productions provide catharsis.
 - (C) Such productions discourage com m unal activity.
 - (D) Such productions obstruct political change.
 - (E) Such productions distance the audience from the art.
- 115.A ll of the follow ing w ould be characteristic of a Forum w orkshop EX C EPT:
 - (A) Productions begin with a narrative script.
 - (B) D ifferent people often play the protagonist.
 - (C) Som e perform ances do not achieve catharsis.
 - (D) Participants arrange them selves into a tableau.
 - (E) Perform ances are guided by a m ediator.

Q uestions 116–118 are based on the follow ing reading passage.

Stars create energy through the process of fusion.W hen a star explodes— a phenom enon called a supernova— so m uch energy is released that heavy m etals such as iron and gold are form ed, seeding surrounding hydrogen clouds.N ew er stars therefore contain m ore heavy elem ents in their atm ospheres.H eavy elem ents form the m aterials that m ake up our planet

5 (and even hum an bodies). It is believed that for a system of planets such as our solar system to form around a star during cloud contraction, the presence of these heavy elem ents in the cloud is a necessity.

A m olecular cloud can become unstable and collapse by the force of gravity, overcoming outward therm all pressure of the constituent gases. At a given temperature and density, two critical measures of size, Jeans mass and Jeans length, can be calculated. If the size of the cloud exceeds 10 either of these critical values, gravity will ultimately win, and the probability of eventual cloud contraction is high.

H ow ever, som e outside influence is still evidently required for a theoretically unstable cloud to initiate collapse. The natural rotation of a galaxy can slow ly alter the structure of a cloud, for instance. Surrounding supernovae can generate shockw aves pow erful enough to affect the debris in other clouds, forcing the debris inw ard and possibly causing contraction to begin. One theory states that density w aves propagating through spiral structures can also sufficiently stimulate clouds to cause contraction.

C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
116.The author of the passage suggests that cloud contraction m ay begin in w hich of the follow ing w ays?
170. The dution of the passage saggests that sloud contraction in ay begin in without of the following ways:
through the process of fusion
explosions of stars w ithin a close enough proxim ity generate shockw aves that prom pt contraction in nearby clouds
debris w ithin a cloud is forced outw ards
117.W hich of the follow ing inferences about our solar system is best supported by the passage?
(A) Life in the solar system depends on energy from the sun.
(B) W hen the system reaches a particular size, it can become unstable and begin to
collapse. (C) The natural rotation of the galaxy can alter the galaxy's structure.
(D) It is believed to have been form ed from m aterials "seeded" into hydrogen clouds.(E) It produced so m uch energy w hen it w as form ed that heavy elem ents w ere generated.
118.It can be inferred from the passage that w hich of the follow ing inhibits interstellar cloud collapse
(A) supernova explosions
(B) galactic rotation
(C) therm al pressure
(D) gravitational force
(E) density w aves
Q uestion 119 is based on the follow ing reading passage.

The N orton-Polk-M athis H ouse in San A ntonio displays a well-integrated design well suited for the primary purpose of the building: to impress. This is evidenced by the fact that the building was designed with

the street it faces in m ind.O nly the South façade is architecturally interesting or involved—the sides of the building are flat,featureless,and uninteresting.The

house was designed not only as a living area, but also as a structure to be seen from the street and awed. This intent is expressed through the use of typical Renaissance ideals of order and weight, and, while it is

- 15 asym m etrical, the building is well balanced and stable. The choice of materials also reflects the "re-discovery" of antiquity prevalent in the Italian R enaissance. The white stone lends an elegant simplicity to the building yet it radiates an air of strength and
- 10m ass rem iniscent of the Parthenon or the A thenian tem ples— especially when juxtaposed with the other, seem ingly fragile brick and wood hom es of the neighborhood.

C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
119.W hich of the follow ing can be inferred about the N orton-Polk-M athis H ouse?
☐ It w as built during the Italian R enaissance.
Its prim ary purpose w as utilitarian in nature.
☐ It appears stronger than other nearby hom es.
Q uestions 120–121 are based on the follow ing reading passage.

A fter 22 years of observations in Shark B ay,A ustralia,behavioral biologist Janet M ann and her colleagues have discovered that certain bottlenose dolphins,know n as spongers,form social netw orks, show ing the first hints of culture am ong non-hum an anim als. Spongers are dolphins that w ear m arine basket sponges on their beaks as hunting tools,using them to root around on deep sandy bottom s and find fish concealed below the sand. Sponging is a com plex hunting technique passed on from m other to offspring. A sponger m ust know w here the sponges grow ,how to pick the right sponge, how to rem ove the sponge intact from the ocean floor, and how and w here to properly hunt.

Spongers typically live solitary lives, but over 22 years of observation, a pattern em erged. The 28 fem ale spongers form ed cliques with other fem ale spongers that were not necessarily

- 10 genetically related to them .This behavior differs from other anim al behavior w here circum stances, such as genetics or food sources, dictate the form ation of groups. The fact that these spongers chose to associate based upon sim ilar, socially learned behaviors m akes their cliques a cultural first am ong anim als.
- 120.W hich of the follow ing expresses the m ain idea of the passage?
 - (A) Sponging is a com plex behavior used by som e dolphins as a hunting technique.
 - (B) A ny study of anim al behavior m ust take place over an extended period of tim e in order for patterns to em erge.
 - (C) A sm all set of non-hum an anim als has been found to form social netw orks.
 - (D) Studying how anim als form groups is im portant to our understanding of nature.
 - (E) O nly hum ans can form social netw orks.

C onsider each of the answ er choices separately and indicate <u>all</u> that apply.

121.W hich of the follow ing can be properly inferred from the passage?	
 ☐ G roups form ed by genetic bonds or food supplies do not qualify as social netw orks. ☐ A II spongers of Shark B ay,A ustralia form social netw orks. ☐ Spongers can only be found in Shark B ay,A ustralia. 	
Q uestions 122–123 are based on the follow ing reading passage.	
1	
For years, the idea that blind people can hear better than sighted people w as considered som ething of an old canard. How ever, functional brain im aging now has allow ed us to look inside the brains of blind people w ho possess what can only be term ed cerebral superpowers—the ability to understand speech at up to 25 syllables per second, a speed that sounds like "noise" to sighted people (a typical sighted person understands closer to 10 syllables per	
second). A s it turns out, a brain region called V 1, situated at the back of the skull and w hich norm ally only 5 responds to light has actually been rew ired in the brains of blind people— and now processes auditory inform ation. This is truly a stunning exam ple of the brain's plasticity, a topic of cardinal im portance in designing educational experiences and 10 m aterials to best engage the brains of students.	
O f course,in discussing the brain's am azing plasticity,m odern thinkers take for granted som ethin that w ould have been shocking to thinkers from A ristotle (w ho posited a holistic,non-corporeal m ind ir D e Anim a in the 4th century,B C) through D escartes (w ho argued,in the 17th century,for m ind-body dualism)— the idea that the m ind is physically located in the brain	
15and that our intellect, personality, and selfhood are attributable to physical processes in the brain and can be altered by brain injuries.	
122.A ccording to the passage, the belief that blind people can hear better than sighted people	
(A) is untrue	
(B) w as not a m atter of contention, but w as then show n to be true(C) w as, for years, thought to be true, but is now up for debate	
(D) is put forth by the scientific com m unity, but this evidence is contested by m any (E) w as, for years, com m only know n but thought by m any to be false, and then w as show n to be true	
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.	
123.A ccording to the passage, A ristotle w ould N O T have thought that	
the m ind is separate from the body	
the m ind exists in parts or m odules,rather than as one	
entity D blind people can hear better than sighted people	
Q uestions 124–125 are based on the follow ing reading passage.	

The atrocities com m itted during the Second W orld W ar by the N ational Socialists are w ell know n and have been m eticulously docum ented by historians. Far less know n, how ever, are the m ass deportations that took place alm ost two years after the conclusion of the war, this tim e orchestrated by the A llied governments. In the years after 1945, over 12 m illion G erm anspeaking citizens of C zechoslovakia, H ungary, R om ania, and Poland w ere dispossessed, packed into trains, and left to fend for them selves in new ly defeated and im poverished G erm any. W hat allow ed for this m ass exile— 5 the largest forced m igration in history— w as the confluence of political m otivations on the part of the key players. The expelling countries of Eastern and C entral Europe were especially keen on punishing G erm and for the horrors of the w ar—though, of course, their own G erm an-speaking populations were hardly responsible for G erm any's actions—and on increasing the ethnic hom ogeneity within their borders. The Allied powers, too, had something to gain. The 10 Soviet U nion, intent on capitalizing politically on G erm an's defeat, aim ed to irrevocably underm ine relations betw een G erm any and Poland, especially by ceding G erm an territory to Poland and emptying it of its inhabitants. Britain, we ary from the w ar, hoped the resulting m ass suffering w ould reinforce the com pleteness of G erm any's defeat. And the 15 U nited States, in turn, was attempting to cozy up to the nations of Eastern and C entral Europe in the hopes of keeping them aw ay from Soviet influence. The result of the deportations, how ever, was the death of at least 500,000 people and G erm any's acquisition of a hom eless population far greater than that of any other industrialized country. The death toll w as not far w orse, furtherm ore, only because the Soviets' am bition to cripple G erm any w as unsuccessful. Follow ing the war, Germany underwent what is known as its "economic miracle," which 20 m ade it possible to house, feed, and em ploy the m ass of exiles. That this episode is practically excised from the history books in som e countries, how ever, is surely corroboration of the platitude that history is w ritten by the victors. C onsider each of the answ er choices separately and indicate all that apply. 124.W hich of the follow ing can be inferred from the passage? Som e events that occurred during W orld W ar II do not appear in history books. The A llied pow ers included the Soviet U nion, B ritain, the U nited States, and Poland. The A llied pow ers w ere not entirely unified on political m atters. C onsider each of the answ er choices separately and indicate <u>all</u> that apply. 125.W hich of the follow ing, if true, w ould w eaken the claim that the A llied pow ers had som ething to gain from the deportations?

The U nited States believed that the Eastern and C entral European pow ers hoped to create m ore m ulticultural, ethnically m ixed societies.

The Soviet U nion w anted to profit from post-w ar trade betw een G erm any and Poland.

B ritain, we ary of the killing during the war, pledged itself to preventing suffering.

Q uestic	Q uestions 126–128 are based on the follow ing reading passage.	
des ech prop a six 5 how ded be d natu parti 10 box you this 15 m e	Q uantum m echanics is a relatively new field of physics that w as developed in the early 0's.A Ithough w e classically think of a particle as a fixed object, quantum m echanics cribes particles as w aves using properties such as position and energy. The quantum m anical w ave describes the probability of a particle to attain certain values of these verties, and m easuring the particle sam ples from this probability. Take, for exam ple, the analogy of rolling c-sided die. For each roll there is a one-in-six chance that any single num ber w ill result. A fter rolling, or ever, only one single num ber w ill be observed. If the die is rolled enough times, one can use that the die has six sides and that each side is equally likely. How ever, one can never completely sure, because rolling dice is probabilistic in re. Quantum mechanics states that the same is true of the position (and other properties) of a particle. A cle trapped in a closed box has some finite probability of being at any location within the box. Open the once and you'll find the particle at only one location. Open the box enough times and and lit see all the particle locations and the frequency at which they are achieved. From one can deduce the original properties of the quantum chanical wave, just as one could deduce the properties of the die. The counterintuitive properties of quantum mechanics, that the attributes of a particle cannot be known in once of measurement, initially provoked many strong philosophical debates and interpretations regarding the line fact, Einstein was deeply troubled by the idea of nature being probabilistic and commented ously that, "G od does not play dice with	
20the ∣	universe." O ver the last 70 years,how ever,irrefutable evidence has abounded that verifies the truth o heory of quantum m echanics.	
126.W hic	h of the follow ing best expresses the m ain idea of the passage?	
(B) (C) (M an	Particles are not a fixed object but rather w aves. C ontroversial theories are often found to be correct. Q uantum m echanics correctly postulates the probabilistic nature of particles. (D) y questions still exist about the nature of particles and quantum m echanics. Experim ents can be designed to test the quantum m echanical nature of particles.	
	d on the inform ation in the passage,w hich of the follow ing w ould best explain Einstein's vation for stating that "G od does not play dice w ith the universe"?	
gam (C) E	Einstein did not believe that particles should be governed by probability as in a e of dice. (B) Einstein believed that G od should control the fate of the universe. Einstein w as opposed to the theory of quantum m echanics on the grounds that it violated causality. (D stein's religious beliefs did not allow him to fully understand the theory of quantum m echanics. Einstein believed that G od created the universe such that particles w ould be m odeled probabilistically as in quantum m echanics.	
Conside	er each of the answ er choices separately and indicate all that apply	

128.W hich of the follow ing can be properly inferred based on the inform ation in the passage?

The location of a particle w ithin a closed box cannot be known for certain w ithout observing the

uestions	s 129–133 are based on the follow ing reading passage.
but very theate theate 5 seeks the S social get a very differ 10 For no of theat	evisible theater and guerrilla theater are two forms of street theater with similar origins by different approaches. Both forms take place exclusively in public places, but invisible reconceals its performative nature whereas guerrilla theater flaunts it. While invisible receates a performance space unbeknownst to its audience, guerrilla theater actively ne attention of an audience by explicitly imposing a performance space onto a public place. It is a training in the early 1970's, Augusto Boal and fellowactors have staged scenes regarding issues in public or semi-public places (e.g., restaurants), crafting their dialog and action the rebal reaction from bystanders. Because performers and non-performers remain invisible theater returns some what to the model set up by traditional theater. However, there are a few performers, being beyond the performative space allows them to avoid the etiquetrater once if people denotes that they are noted to not support that they
15are view these a B perform public-	or perform ance. If people do not suspect that they w ing art, how ever, they are free to engage w ith the action and concepts of an unfolding dram a concepts were real. oal has docum ented various successful instances of invisible theater in which noners actively listen, participate in public-spirited discussion, and even take unplanned minded action in response to the dialogue and events set up by invisible theater ers. Because onlookers think they are witnessing real life events, because the perform ers are bold.
20their si experie success G im posi 25include street, way to A 30ever-exits direct	ratem ents, because the scripted characters are very vocal about what they are doing arnoing, invisible theater is able to instigate political conversation within an everyday context sfully creates public forum sout of thin air. uerrilla theater creates surprise perform ances in public, but is driven by the forceful tion of "traditional" (if we can call anything about guerrilla theater "traditional") theater. One exam place two professors of G alway's University C ollege who dressed in their robes and went out to the questioning pedestrians and awarding diplom as to the ones least able to provide good answers, as protest their university's decision to grant R onald R eagan an honorary doctorate in lawarding part of the goal of guerrilla theater is to get publicized, its message echoed over and over in our panding network of technology-interface mass media. Guerrilla theater knows it may antagonize the audience—it often hopes to, because conflict is more likely to be broadcast, and the goal of
	each of the answ er choices separately and indicate <u>all</u> that apply.

 (A) a discussion of two different but aligned artistic currents (B) an exam ination of which of two art forms is more effective at prompting political action (C) a synopsis of the evolution of theater (D) a presentation of two theatrical concepts that conceal their perform ative nature (E) an overview of artistic life in public places
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
131.W hich of the follow ing is true of both invisible theater and guerrilla theater?
both have a goal of encouraging discourse both im pose perform ance space onto public location both antagonize their audience
132. The passage im plies that the G alw ay professors believed w hich of the follow ing?
 (A) G uerrilla theater w as superior to invisible theater. (B) Protesting an honor could result in the revocation of the aw ard. (C) G ranting R onald R eagan a degree dem eaned the intellectual standard of the university. (D) H anding out diplom as w as a legal activity. (E) R onald R eagan's foreign policy had deleterious effects.
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
133.W hich of the follow ing,if true,w ould underm ine the principle of invisible theater? When people know ingly view art,their heightened attention increases their perception and involvem ent.
A udience m em bers w atch a perform ance and later report to others w hat happened,still not know ing that the event w as a theater piece.
A lively debate about public issues is brought to a halt by the im position of scripted characters inserting theatrical dialogue.
Q uestions 134–138 are based on the follow ing reading passage.
C ells em ploy m any strategies to avoid genetic m utation. From the high fidelity of D N A -synthesizing enzym es to the pro-death signaling that accom panies m utagenic stim uli such as U V radiation, cellular

the perform ance is over.

130. The m ain point of the passage could best be described as

5 w reak physiological havoc;indeed,m alfunctions in m olecular players that safeguard against m utagenesis, such as the protein p53, have been im plicated in diseases such as cancer.

m echanism s that stym ie genetic changes are ubiquitous throughout the natural w orld. These

m echanism s are critical because w idespread genom ic changes w ould

Y et despite the criticality of preventing and elim inating D N A m utations to avoid deleterious changes in cells,in specific contexts m any organism s have also adapted beneficial m echanism s to induce genetic changes.

O ne such instance is observed in vertebrate im m une system s: w hite blood cells such as T cells recognize invading pathogens through receptors on their surfaces. In order to recognize a w ide variety of pathogens,

- 10 these cells m ust generate a large repertoire of receptors.R elying only on a genetically encoded repertoire w ould be disadvantageously lim iting— analogous to having only a few dozen language phrases w ith w hich to respond to the nearly infinite potential combinations of w ords in a conversation. Instead, the repertoire is generated by a process of genetic
 - recom bination, in w hich T cells "cut-and-paste" the D N A encoding their m icrobe-recognizing receptors. M any
- 15 of these genetic rearrangem ents produce cells bearing non-functional proteins; such unproductive cells are elim inated through senescence. N evertheless, this seem ingly haphazard process of program m ed genetic m utation is crucial to
 - generating im m unological diversity, as individuals w ith defects in this pathw ay exhibit clinical
- 20 im m unodeficiency. H ow this process is regulated by T cells to prevent harm ful m utations rem ains the subject of ongoing research.

C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
134.W hich of the follow ing is true of genetic changes in cells?
 □ They can cause serious problem s to body system s. □ They can provide benefits to the im m une system . □ Som e genetic m utation is regulated by T cells.
135.The phrase "seem ingly haphazard" (line 19) is m eant to indicate that:
 (A) the process of program m ed genetic m utation deserves further study. (B) the production by T-cells of "unproductive cells" is w asteful. (C) genetic recom bination m ay appear random ,but is not. (D) T-cells are essential to proper im m une system functioning. (E) program m ed genetic m utation can be dangerous to an organism.
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
136.W hich of the follow ing can be inferred from the first paragraph of the passage?
Pro-death signaling is a m echanism that hinders genetic changes. C ellular m echanism s that safeguard against m utagenesis are very com m on. Protein p53 m ay play a role in preventing cancer from form ing.
137. The analogy (lines 14–15) regarding "a few dozen language phrases conversation" is m eant to elucidate
(A) why genetic recombination is important to T cell functioning

(B) the need for num erous m eans of fighting cancer and other diseases caused by cell m utation (C) why white blood cells such as T cells rely on a genetically encoded repertoire

(D) how language use is like "cutting and pasting"

Consider each of the answ er choices separately and indicate all that apply. 38. In the analogy in the third paragraph, the "nearly infinite potential com binations of words in a conversation," represent pathogens pathogens T cells	
conversation," represent pathogens receptors T cells Q uestions 139–140 are based on the follow ing reading passage. M artin H aberm an pulls no punches in his scathing critique of the insensitive and unjust treatm ent received by children in poverty in the public school system. He focuses the brunt of his criticism on teachers w ho have been insufficiently trained for the realities of the en odern school environm ent and w hose prejudices, lack of deep content know ledge, and excessive focus on order and discipline profoundly lim it their effectiveness. Haberm an writes, "the principles and theories we call child and adolescent developm ent were all developed to explain the middle-class experience." 5 and that everyone else in public schools, including non-white, im migrant, or non-English-speaking children, are considered som ehow anom alies, thus leading to the absurd situation in which a teacher com pletes teacher training and is put in front 10 of a class of students she considers to be m ade entirely of "exceptions." C onsider each of the answ er choices separately and indicate all that apply. 39.A ccording to H aberm an, a teacher's effectiveness can be com prom ised by insufficient attention to order and discipline insufficient know ledge of the m aterial being taught personal bias 40.In the last line of the passage, the w ord exceptions is in quotes to make the point that (A) the idea of "exceptions" is crucial to effective education (B) the quote is taken verbatim from a teacher (C) students w ho perform academ ically w ell are an aberration, not the reverse (D) certain teachers inappropriately consider "non-w hite, im m igrant, or non-English-speaking children" as other than the norm (E) teachers versed in the principles and theories of child and adolescent developm ent	C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
Q uestions 139–140 are based on the follow ing reading passage. Martin H aberm an pulls no punches in his scathing critique of the insensitive and unjust treatm ent received by children in poverty in the public school system. He focuses the brunt of his criticism on teachers who have been insufficiently trained for the realities of them odern school environment and whose prejudices, lack of deep content know ledge, and excessive focus on order and discipline profoundly lim it their effectiveness. Haberm an writes, "the principles and theories we call child and adolescent development were all developed to explain the middle-class experience," and that everyone else in public schools, including non-white, imm igrant, or non-English-speaking children, are considered somehow anomalies, thus leading to the absurd situation in which a teacher completes teacher training and is put in front of a class of students she considers to be made entirely of "exceptions." C onsider each of the answer choices separately and indicate all that apply. C onsider each of the answer choices separately and indicate all that apply. Insufficient attention to order and discipline insufficient know ledge of the material being taught personal bias 140. In the last line of the passage, the word exceptions is in quotes to make the point that (A) the idea of "exceptions" is crucial to effective education (B) the quote is taken verbatim from a teacher (C) students who perform academ ically well are an aberration, not the reverse (D) certain teachers inappropriately consider "non-white, imm igrant, or non-English-speaking children" as other than the norm (E) teachers versed in the principles and theories of child and adolescent development	
M artin H aberm an pulls no punches in his scathing critique of the insensitive and unjust treatm ent received by children in poverty in the public school system. He focuses the brunt of his criticism on teachers who have been insufficiently trained for the realities of the modern school environment and whose prejudices, lack of deep content know ledge, and excessive focus on order and discipline profoundly lim it their effectiveness. Haberman writes, "the principles and theories we a call child and adolescent development were all developed to explain the middle-class experience," 5 and that everyone else in public schools, including non-white, imm igrant, or non-English-speaking children, are considered somehow anomalies, thus leading to the absurd situation in which a teacher completes teacher training and is put in front 10 of a class of students she considers to be made entirely of "exceptions." C onsider each of the answer choices separately and indicate all that apply. (C onsider each of the answer choices separately and indicate all that apply. 139.A ccording to Haberman, a teacher's effectiveness can be compromised by insufficient attention to order and discipline insufficient know ledge of the material being taught personal bias 140.In the last line of the passage, the word exceptions is in quotes to make the point that (A) the idea of "exceptions" is crucial to effective education (B) the quote is taken verbatim from a teacher (C) students who perform academ ically well are an aberration, not the reverse (D) certain teachers inappropriately consider "non-white, imm igrant, or non-English-speaking children" as other than the norm (E) teachers versed in the principles and theories of child and adolescent development	receptors
treatm ent received by children in poverty in the public school system .H e focuses the brunt of his criticism on teachers w ho have been insufficiently trained for the realities of the m odern school environm ent and w hose prejudices, lack of deep content know ledge, and excessive focus on order and discipline profoundly lim it their effectiveness.H aberm an w rites, "the principles and theories w e call child and adolescent developm ent w ere all developed to explain the m iddle-classe experience," 5 and that everyone else in public schools, including non-w hite, im m igrant, or non-English-speaking children, are considered som ehow anom alies, thus leading to the absurd situation in w hich a teacher com pletes teacher training and is put in front 10 of a class of students she considers to be m ade entirely of "exceptions." C onsider each of the answ er choices separately and indicate all that apply. C onsider each of the answ er choices separately and indicate all that apply. 139.A ccording to H aberm an,a teacher's effectiveness can be com prom ised by insufficient attention to order and discipline insufficient know ledge of the m aterial being taught personal bias 140.In the last line of the passage, the w ord exceptions is in quotes to m ake the point that (A) the idea of "exceptions" is crucial to effective education (B) the quote is taken verbatim from a teacher (C) students w ho perform academ ically well are an aberration, not the reverse (D) certain teachers inappropriately consider "non-w hite, im m igrant, or non-English-speaking children" as other than the norm (E) teachers versed in the principles and theories of child and adolescent developm ent	Q uestions 139–140 are based on the follow ing reading passage.
I39.A ccording to H aberm an,a teacher's effectiveness can be com prom ised by insufficient attention to order and discipline insufficient know ledge of the m aterial being taught personal bias I40.In the last line of the passage,the w ord exceptions is in quotes to m ake the point that (A) the idea of "exceptions" is crucial to effective education (B) the quote is taken verbatim from a teacher (C) students w ho perform academ ically w ell are an aberration,not the reverse (D) certain teachers inappropriately consider "non-w hite,im m igrant,or non-English-speaking children" as other than the norm (E) teachers versed in the principles and theories of child and adolescent developm ent	treatm ent received by children in poverty in the public school system .H e focuses the brunt of his criticism on teachers w ho have been insufficiently trained for the realities of the m odern school environm ent and w hose prejudices, lack of deep content know ledge,and excessive focus on order and discipline profoundly lim it their effectiveness.H aberm an w rites, "the principles and theories w e call child and adolescent developm ent w ere all developed to explain the m iddle-class experience," 5 and that everyone else in public schools, including non-w hite, im m igrant, or non-English-speaking children, are considered som ehow anom alies, thus leading to the absurd situation in w hich a teacher com pletes teacher training and is put in front
□ insufficient attention to order and discipline □ insufficient know ledge of the m aterial being taught □ personal bias 140.In the last line of the passage,the w ord <i>exceptions</i> is in quotes to m ake the point that (A) the idea of "exceptions" is crucial to effective education (B) the quote is taken verbatim from a teacher (C) students w ho perform academ ically w ell are an aberration,not the reverse (D) certain teachers inappropriately consider "non-w hite,im m igrant,or non-English-speaking children" as other than the norm (E) teachers versed in the principles and theories of child and adolescent developm ent	C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
taught personal bias 140.In the last line of the passage, the w ord <i>exceptions</i> is in quotes to m ake the point that (A) the idea of "exceptions" is crucial to effective education (B) the quote is taken verbatim from a teacher (C) students w ho perform academ ically w ell are an aberration, not the reverse (D) certain teachers inappropriately consider "non-w hite, im m igrant, or non-English-speaking children" as other than the norm (E) teachers versed in the principles and theories of child and adolescent developm ent	insufficient attention to order and discipline
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education (B) the quote is taken verbatim from a teacher (C) students w ho perform academ ically w ell are an aberration,not the reverse (D) certain teachers inappropriately consider "non-w hite,im m igrant,or non-English-speaking children" as other than the norm (E) teachers versed in the principles and theories of child and adolescent developm ent	140.In the last line of the passage, the word exceptions is in quotes to make the point that
	education (B) the quote is taken verbatim from a teacher (C) students w ho perform academ ically w ell are an aberration,not the reverse (D) certain teachers inappropriately consider "non-w hite,im m igrant,or non-English-speaking children" as other than the norm (E) teachers versed in the principles and theories of child and adolescent developm ent

Q uestions 141–142 are based on the follow ing reading passage.

(E) the m echanism by w hich m utagenesis can com prom ise physiological functioning

N aturalism , arising in the 19th century as a literary response to D arw in's account of evolution, focused on describing everyday reality but differed from realism in its attempts to provide a "scientific" foundation for its depictions of characters, stressing the influence of environm ent and heredity upon the individual psyche. Ém ile Zola, in particular, saw his craft as an extension of the scientific m ethod into the dom ain of art. The 19th century, perhaps in opposition to naturalism, saw the rise of the D ecadent m ovem ent, em bracing artifice over nature in their w riting, 5 cham pioned by Zola's erstw hile protégé, Joris-K arl H uysm ans. The protagonist of his m asterpiece, A rebours (literally, Against the G rain, but m ore com m only translated as Against N ature), rem oves him self from society—view ing it as the product of 10 a nature long surpassed by hum an ingenuity— and surrounds him self exclusively with art, perfum e, literature, and technology. C onsider each of the answ er choices separately and indicate all that apply. 141.W hich of the follow ing can be inferred from the passage about perfum e? Som e follow ers of the D ecadent m ovem ent considered it to be an exam ple of hum an artifice. Som e follow ers of the D ecadent m ovem ent considered it to be superior to natural entities. Som e follow ers of the D ecadent m ovem ent enjoyed surrounding them selves w ith it. C onsider each of the answ er choices separately and indicate all that apply. 142.W hich of the follow ing, if true, would undermine the claim that the Decadent movement w as opposed to naturalism? D ecadent authors intended to use literature as a vehicle for the scientific m ethod. D ecadent authors focused on the effects of environm ent on shaping character. D ecadent authors elaborated on the way inherited traits influenced hum an behavior.

For m any years, biological scientists have sought to decipher cellular function by quantifying the degrees of protein and m R N A expression w ithin populations of their cells of interest. C lassically, these m easurem ents required combining m any cells into a single sample and rupturing their m embranes, thus exposing pooled quantities of the target molecule for detection. One limitation of these techniques is the reliance on average measurements: it is impossible to distinguish a uniform population of cells expressing intermediate quantities of a molecule from a population

Q uestions 143–144 are based on the follow ing reading passage.

5 com posed of separate low and high expressers. The distinction has proven to be im portant, particularly in the context of drug targeting of cancer cells; prescribing a dose to hit the "average" cell m ay com pletely m iss the m ore aggressive "one 10 percent."

m olecule's expression w ithin the population. As a result, researchers are increasingly investigating the sources and significance of variability w ithin populations that

15 w ere previously assum ed to be identical.

143.A ccording to the passage, the lim itation of com bining m any cells into one sam ple and then rupturing their m em branes in order to detect a target m olecule is that

(A) variability exists w ithin cell populations
(B) some cells in the sam ple m ay contam inate others
(C) this method cannot single out the cells that express m ore of a certain m olecule
(D) the rupture of cell m em branes is im plicated in the form ation of cancer
(E) it is preferable to capture a population's average levels of a m olecule

C onsider each of the answ er choices separately and indicate all that apply.

144.W hich of the follow ing can be inferred from the passage regarding flow cytom etry and R N A FISH?

B oth technologies allow researchers to quantify properties of individual cells.

U sing these technologies it is im possible to distinguish a uniform population of cells

B oth technologies allow researchers to m easure variability of m olecule

possible to capture not only a population's average levels of a m olecule, but also the distribution of the

The advent of single-cell m easurem ent technology such as flow cytom etry and R N A FISH has m ade it

Q uestions 145-146 are based on the following reading passage.

expressing interm ediate quantities of a m olecule.

expression w ithin cell populations.

The Portuguese began to enter A ngola in the 16th century, and over the next three hundred years slow ly pushed into the interior of the sizable nation of Southern A frica, finally achieving com plete occupation by the 1920's. How ever, following A ngolan independence in 1975, and despite a bloody civil war that lasted until 2002, the Angolan economy has grown at a double-digit pace since the 1990's, due largely to expansive mineral and petroleum reserves. Conversely,

- Portugal is now broke and in debt, its econom y shrinking by full percentage points every year. In a grand stroke of irony, Portugal's Prim e M inister Pedro Passos C oelho in 2011 suggested to A ngola's President Jose Eduardo dos Santos that "W e should take advantage of this m om ent ... to strengthen our bilateral relations." President dos Santos replied, "W e are aw are of Portugal's difficulties and w e are open and available to help." This "help" w ill likely com e in
- 10the form of A ngola's investment in Portuguese industries that the International M onetary Fund has ordered be privatized as a condition of a 78 billion dollar bailout. A Iready, the country that once m ined A ngola for slaves and raw m aterial is now virtually helpless as A ngola purchases Lisbon's prime real estate, using m uch of it to build luxury resorts where
- 15 A ngolan officials go for holidays.

D espite the stunning reversal of fortune, A ngola is not w ithout its difficulties. C orruption is ram pant, and A ngola has one of the highest levels of income inequality in the w orld—in the capital city of Luanda, ham burgers go for 50 dollars and designer jeans cost twice w hat they do in London or N ew Y ork, w hile two-thirds of the population lives on less than 2 dollars a day.

145.W hich of the follow ing is NOT stated as a component of Portugal and Angola's historical relationship?

- (A) Portuguese traders sold A ngolan slaves.
- (B) R aw m aterial w as taken from A ngola by the Portuguese. (C) The two nations were at war.
- (D) The Portuguese increasingly dom inated A ngola over a period of several hundred years.
- (E) A ngola achieved independence from Portugal in the 20th century.
- 146. The "grand stroke of irony" (line 7) is best described as:
 - (A) two countries dedicated to strengthening bilateral relations share economic problems. (B) a form er colonial possession is now being called upon to assist its form er possessor (C) slavery has ended, and yet people still live in poverty
 - (D) the cost of living in Luanda is very high, and yet m ost people are poor
 - (E) the Portuguese econom y w as once thriving and is now dw indling

Q uestions 147–149 are based on the follow ing reading passage.

For as long as hum and have been philosophizing about the m ind, virtually every thinker has conceived of the m ind as a unitary entity. In fact, such a view w as crucial to both A ristotle's and D escartes's view that the m ind (or the soul) survived death. Surely the self cannot be subdivided; surely one cannot have half a m ind?

Indeed,the final evidence that one can,in fact,have "half a m ind" cam e in the 1960's,from the fam ous studies for w hich R oger Sperry w as aw arded the N obel Prize in 1981 for his discoveries about the functional

- 5 specialization of the cerebral hem ispheres.W orking w ith epileptics w ho had been treated via the cutting of the *corpus callosum*, or division betw een the two hem ispheres, Sperry w as able to observe "odd behavior" in these patients— each half of
- 10the brain could gain new inform ation, but one hem isphere was entirely unaw are of what the other had learned or experienced.

R estak,in *The M odular Brain*, posits that the brain is not centrally organized (som e prior theories of m ind had actually posed the existence of a "director" in the brain, begging the question of w ho directs the director's brain) but, alternately, that different parts of the brain control different abilities, and that those "m odules" can operate independently. As we can easily see from patients with brain dam age, there is no "unified m ind and personality"—part of ourselves, centered in different

- 15 parts of the brain,can change or be obliterated entirely as a result of physical changes to the brain.C onsider the case of Phineas G age,a rail w orker w ho,in 1848,w hile attem pting to com press explosive pow der w ith a tam ping rod,literally blew a
 - hole in the front of his brain.W hile G age w as ultim ately able to function fairly norm ally,his personality w as markedly changed;he becam e boorish and irresponsible.G age's case w as w ell docum ented,allow ing m odern
- 20 reconstructions to show that his injury affected areas of the brain that w e now know to be related to m oral sensibilities and their expression. That is, Phineas G age literally lost one (or m ore) of the m odules in his modular brain system.
- 147. The case of Phineas G age is presented as evidence that
 - (A) the modular brain system has a central "director"
 - (B) people w ho lose parts of the brain are usually able to function norm ally (C) brain injury is a serious risk in certain types of w ork

Q uestions 150–152 are based on the follow ing reading passage.	
149.W hich of the follow ing can be inferred about thinkers w ho conceive of the m ind as a unitary entity? They believe that the m ind survives death. Their view s are incom patible w ith m odular brain theory. They are unaw are that certain aspects of personality are known to be controlled by certain areas of the brain.	
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.	
148.In lines 13–14,the phrase "begging the question of w ho directs the director's brain" is m eant to em phasize the the problem of a "director" in the brain is recursive whether there is such a "director" of the brain is an open question R estak has both asked and answ ered a question about the brain's organization	
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.	
(D) splitting the <i>corpus callosum</i> can result in m arked changes in personality (E) aspects of personality can be physically located w ithin the brain	

M ost m ental health disorders and cases of drug abuse tend to dim inish a person's ability to recognize other people's feelings. A recent study in N orw ay suggests, how ever, that these effects can be bolstered by a nasal spray puff of the brain horm one oxytocin, w hich is known to increase feelings of calm and social bonding. A Ithough oxytocin is already prescribed for

5 certain disorders that affect social function, such as autism, these treatm ents are often tried in isolated cases, leaving the overall effects of the drug without evaluation.

The N orw egian experim ent focused on 40 students, each of w hom w as given either a control dose of salt w ater or the drug oxytocin. A fter the nasal dose, the students w ere show n faces of happy, angry, or neutral expressions, som e of w hich w ere subtler than others. The researchers found that after a nasal spray dose of oxytocin, the students' aw areness of the expressions w as

10 intensified. Further, the experim ent show ed that the oxytocin had the greatest effect on those w ho were least able to evaluate em otions properly when given the control.

A Ithough the results of this study seem prom ising, Leknes, the lead scientist in the investigation, cautions that the horm one would not be a "cure-all" for mental illness or drug

- 15addiction.R ather,he suggests,the horm one m ight help som e individuals better interpret the social cues from the w orld around them .
- 150.B ased on the inform ation in the passage, the author of the passage w ould m ost likely agree w ith w hich of the following statem ents about the brain horm one oxytocin?
 - (A) Its overall effects require further evaluation.

 (B) In the future, it will be used to cure mental illness and drug addiction. (C) It is not useful for people who are already able to interpret social cues. (D) Its effects on the brain are unknown. (E) It is more effective when dosed via nasal spray than orally.
151. The passage lends the m ost support to w hich of the follow ing conclusions about the nasal spray study of oxytocin?
 (A) The results of the study are inconclusive because a sam ple set of 40 students is not substantial. (B) The nasal spray of oxytocin increased feelings of calm and social bonding for the students. (C) M any students w ere unable to recognize the expressions show n to them w hen given only the control dose of salt w ater. (D) The students w ho m ight need oxytocin m ost are the ones w ho appear m ost responsive to the horm one. (E) The subtler the expression, the m ore difficult it w as for the students to identify. 152.W hich of the follow ing is NOT m entioned in the passage regarding the N orw egian study on oxytocin?
 (A) The study show ed that oxytocin m ade students m ore able to distinguish faces from one another. (B) Leknes w as the lead scientist in the investigation. (C) A control dose of salt w ater w as used to gauge norm al student ability to recognize facial expressions. (D) Students w ho participated in the study w ere show n happy,angry,or neutral expressions. (E) O xytocin had the greatest effect on students w ho w ere least able to evaluate em otions properly w hen given the control dose.
Q uestion 153 is based on the follow ing reading passage.
Ever-present in Jam aican folklore and storytelling is the character of the trickster A nansi,an A frican spidergod w ho regularly outsm arts other anim al-god characters. A lso known as K w aku A nanse, 'N ancy Spida,' and A unt N ancy in the Southern U S, the character of A nansi originated w ith the A shanti people in G hana. In Jam aican culture, as well as throughout the C aribbean, A nansi has been a symbol of slave resistance. Just as A nansi uses cunning and subterfuge to achieve
5 victories over his oppressors, so too did slaves em ploy such strategies w ithin the pow er structure of the plantations.
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
153.W hich of the follow ing can be inferred from the passage? ☐ A nansi originated in Jam aican folklore. ☐ Jam aican folklore features other characters that have both divine and anim al characteristics. ☐ A nansi is know n on at least two continents
Q uestions 154–156 are based on the follow ing reading passage.

The cosm ic m icrow ave background is a uniform 2.7 K elvin radiation that perm eates the entire universe. A Ithough it was postulated alm ost 50 years before, Penzias and W ilson discovered the cosm ic m icrow ave background accidentally in the 1970's. W orking at B ell Labs, these two scientists were using a radio telescope to observe distant stars. They found, how ever,

that no m atter w here they pointed their telescope they observed an approxim ately 3 K elvin background signal. A fter convincing them selves that this signal w as real and not som e artifact of their instrum ent, they consulted

- with a team at Princeton U niversity that had been searching for the cosm ic microw ave background. The Princeton team confirmed what Penzias and Wilson had found. A pparently, Penzias and Wilson had accidentally stumbled upon the oldest
- 10 observable in the entire universe.

W hy does the cosm ic m icrow ave background exist and perm eate all of space? Just an instant after the B ig B ang, all m atter in the universe w as so energetic, or hot, that it existed as free particles know n as "quarks." In the fractions of a second follow ing, the universe expanded and cooled until the quarks lost enough energy to form electrons, protons, and neutrons,

the building blocks of ordinary m atter. Photons, the sm allest particles of light, also filled the universe and w ere so energetic that they "bounced" off electrons, keeping the electrons and protons from form ing atom s.

- 15 A fter approxim ately 400,000 m ore years, the photons lost enough energy that atom s could form readily. W ithout any lone electrons off of w hich photons could "bounce," the photons began stream ing unim peded all through the universe, m ostly unchanged but for one exception. D ue to the further expansion and cooling of the universe, these photons have
- 20 cooled to just 2.7 degrees above absolute zero. It was these same photons that Penzias and Wilson observed approximately 13.6 billion years later here on Earth.
- 154.W hich of the follow ing m ost accurately expresses the author's intent in w riting the passage?
 - (A) to describe the discovery and reason for the cosm ic m icrow ave background. (B) to explain how science discoveries can be m ade accidentally.
 - (C) to argue that the cosm ic m icrow ave background is the oldest observable in the universe. (D) to defend the w ork of Penzias and W ilson.
 - (E) to support the theory of the B ig B ang using the cosm ic m icrow ave background.
- 155.A ccording to the passage, which of the following events occurred first after the Big Bang?
 - (A) The universe expanded and cooled until atom s form
 - ed. (B) Photons stream ed unim peded through space.
 - (C) A II m atter existed as particles know n as "quarks."
 - (D) The cosm ic m icrow ave background cooled to 2.7 K elvin.
 - (E) A tom ic nucleii,com posed of protons and neutrons,form ed.
- 156.A ccording to the passage,to w hich of the follow ing w ould the author m ost likely agree regarding the discovery of Penzias and W ilson?
 - (A) It was not as important as the signal for which they were originally searching.
 - (B) The telescope belonging to Penzias and W ilson w as m ore sensitive than that of the Princeton team . (C
 -) Penzias and W ilson w ould not have discovered the cosm ic m icrow ave background if it had been m ore than 3 K elvin in tem perature.
 - (D) Penzias and Wilson did not initially understand the implications of their results.
 - (E) Penzias and W ilson did not believe that their signal w as real w hen they took their discovery to the Princeton team .

Qι	uestions 157–158 are based on the follow ing reading passage.
	A m erican com poser and conductor John Philip Sousa view ed the increasing popularity of the phonograph w ith deep dism ay.H e suggested that it w ould "reduce the expression of m usic to a m athem atical system of megaphones,w heels,cogs,disks,cylinders,and all m anner of revolving things,w hich are as like real art as the marble statue of Eve is like her beautiful, living,breathing daughters." Such "m echanical" m usic w as not sincere,according to Sousa: "The nightingale's song is delightful because the nightingale herself gives it forth. The boy w ith a penny w histle and glass of w ater m ay give an excellent im itation,but let him persist, he is sent to bed as a nuisance." Sousa further decried a "decline in dom estic m usic," noting the decline of m usical instrum ent purchases and predicting that w hen m usic comes so easily out of a phonograph,m others w ill not bother to sing lullabies to their babies. He opined that w hen m usic is so readily playable,m usical and vocal instruction as a norm all part of education w ill fall out of fashion, the "tide of am ateurism" receding, and m usic w ill become the province of m achines and professional singers only. "W hat of the national throat?" asked Sousa. "W ill it not w eaken? 5 W hat of the national chest? W ill it not shrink?"
Со	onsider each of the answ er choices separately and indicate <u>all</u> that apply.
157.V	W hich of the follow ing,if they occurred,w ould contradict Sousa's argum ents? A private school that once dem anded two sem esters of vocal instruction as a requirement for graduation now offers the same classes as electives. A young boy in an isolated rural area during the G reat D epression hears a professional bluegrass band for the first time on a phonograph, and it inspires him to ask his grandfather to teach him to play the family banjo. A modern recording artist comments that, because of her terrible stage fright, her live performances are less genuine than the recordings she is able to produce when she feels comfortable in the studio.
158.7	Γhe "national chest," as used in the passage,m eans:
	 (A) the perform ances of professional singers (B) the U S Treasury (C) the phonograph (D) the vocal abilities of am ateur A m erican singers

(E) m usical instrum ents found in A m erican hom es

Q uestions 159-160 are based on the following reading passage.

In therm odynam ics,an idealized blackbody is an object that reflects zero incident electrom agnetic radiation, absorbing all such radiation instead and consequently w arm ing up. The blackbody em its just as m uch energy per unit tim e as it absorbs;the electrom agnetic spectrum of the em itted energy,how ever,is com pletely determ ined by the tem perature of

the blackbody and by no other properties thereof, such as m aterial com position or structure. In contrast, reflected radiation undergoes no fundam ental change in its original spectral characteristics, other than a

- 5 possible D oppler shift created by the m otion of the reflector relative to an observer.R esearchers have recently discovered that a m icroscopic "forest" of vertically aligned single-w all carbon nanotubes of varying heights applied to a surface has
- om

e thus far to creating a perfectly dark m aterial.	e co
159.W hich sentence in the passage states the variables that define the electrom agnetic spectrum of a blackbo	dy?
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.	=
160.W hich of the follow ing can be properly inferred from the passage?	
 A n object that reflects incident electrom agnetic radiation is not an idealized blackbody. R eflected radiation alw ays exactly m atches the spectral characteristics of the original incident radiation. 	
A m icroscopic "forest" of vertically aligned single-w all carbon nanotubes of varying heights applied to a surface w ill absorb all incident electrom agnetic radiation.	
Q uestions 161–163 are based on the follow ing reading passage.	=
U niversalism w as m ost prom inently set forw ard by the linguists Joseph G reenberg at N oam C hom sky. C hom sky, attem pting to account for the celerity w ith w hich children grather the subtle gram m atical rules of their native tongues, argued that the best explanation is that hum an brain has "m odules" capable of generating an entire gram m ar on the basis of a small set of "generative rules." We should therefore expect to find gram m atical features shared by all hum an account for the linguists.	sp the

languages.G reenberg,on the other hand,painstakingly listed the gram m atical features shared by m ultiple

- 5 languages, positing that such com monalities must reflect innate cognitive biases. Greenberg's data paid special attention to w ord order, yielding the hypothesis that som e gram m atical features of languages m ust be co-dependent. C hom sky's view, in turn, predicts that as languages evolve and change, the gram m atical features generated by the sam e rule should covary. A team led by R ussell G ray, a N ew Zealand psychologist, recently released the results of a m assive study
- 10 that they claim casts doubt on these universalist predictions. **B orrow ing** the technique of phylogenetic analysis from evolutionary biology, G ray and his colleagues reconstructed four fam ily trees containing m ore than tw o thousand languages.
 - They found that the co-dependencies in w ord-order change varied am ong fam ilies, suggesting that each fam ily has evolved its own rules. Moreover, if co-dependencies were common to two families, there was evidence
- 15 that they had separate origins within each family, thus yielding no evidence of familyinvariant rules. M any universalists, how ever, w ere unim pressed: that languages vary w idely is well-known.B ut given that some language is spoken by virtually all
- 20hum an beings,it w ould be strange if it did not reflect cognitive universals. It is the search for those universals, not the cataloguing of variations, that should take priority.
- 161. The passage m ost likely uses the w ord borrow ing to indicate that
 - (A) G ray and his colleagues produced research that w as not original.

- (B) linguistics and evolutionary biology have m any features in com m on.
- (C) progress in linguistics cannot be carried out through the traditional m ethods of linguistics.
- (D) research m ethods com m on to one branch of science can prove fruitful to another.
- (E) facts about linguistics can shed light on our understanding of evolution.
- 162. Select the sentence in the passage that provides support for the thesis of universalism.
- 163.W hich of the follow ing can be inferred from the passage?
 - (A) The thesis of universalism can only be supported through em pirical studies.
 - (B) Som e researchers believe that em pirical research can underm ine theoretical conclusions. (C) G ram m atical features in all languages co-vary.
 - (D) There is no evidence of the existence of fam ily-invariant rules.
 - (E) U niversalism is the only w ay to explain the speed at w hich children acquire language.

Q uestions 164–166 are based on the follow ing reading passage.

For m any years,m ost physicists supported one of two cosm ological theories: the steadystate universe, and the B ig B ang. The theory of the steady-state universe states that the universe has alw ays existed exactly as we observe it at present, whereas the B ig B ang theory postulates that the universe was conceived from a singularity in space-time that has expanded

5 into current universe. The validity of either theory w as not tested until 1929, w hen Edw in H ubble fam ously discovered w hat is now known as H ubble's Law.

H ubble's experim ent is now a fam ous benchm ark in m odern physics. H ubble, using the M ount W ilson O bservatory, observed a class of stars known as C ephied variables, lum inous stars that blink and flicker w ith a rate that depends on their distance from the observer.

U sing this relation and years of observing, H ubble calculated the distance to m any of these variable stars. M ilton H um ason, a fellow astronom er, helped H ubble to calculate the stars' relative velocities to Earth. W hen 10 H ubble com bined the two data sets he found an interesting relationship: all the stars appeared to be m oving aw ay from us! In fact, the speed at w hich they were m oving increased w ith an increasing distance from Earth.

H ubble realized, from this sm all set of data, that the earth w as a part of the expanding universe. A s the universe expands outward in all directions, any observer from a fixed vantage point will look out and see

- 15 everything running aw ay from them .The further aw ay any two points are, the more the expansion affects them, and the faster they appear to be moving aw ay from each other. Hubble's result was the first experimental proof that we do not live in a
- 20 steady-state universe, but rather a dynam ic and expanding one.
- 164.W hich of the follow ing best expresses the m ain idea of the passage?
 - (A) Edw in H ubble discovered H ubble's Law, a benchm ark in m odern physics.
 - (B) H ubble discovered that the universe is expanding, disproving the theory of the steady-state universe. (C) B efore 1929,m ost physicists supported one of two theories of the universe.
 - (D) All objects in space are receding from each other because of the expansion of the universe.
 - (E) M odern physics w ould not have progressed w ithout H ubble's discovery of the expanding universe.
- 165.W hich of the follow ing is not m entioned in the passage regarding H ubble's experim ent in w hich he deduced H ubble's Law?
 - (A) It used years of data on C epheid variable stars.

Q uestions 167–169 are based on the follow ing reading passage.		
 66.W hich of the follow ing can be properly inferred from the passage? ☐ The steady-state universe theory does not allow for an expanding universe. ☐ The closer any two points in the universe are,the less expansion effects them ,and the slow er they appear to be moving apart. ☐ A fter H ubble's discovery of the expanding universe,the B ig B ang w as the only cosm ological theory that could be valid. 		
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.		
 er. (C) H ubble found that all the observed stars appeared to be m oving aw ay from Earth. (D) H ubble deduced the distance to C epheid variable stars based on the rate at w hich they blinked and flickered. (E) H ubble deduced the velocity of Earth to find the stars' absolute velocities. 		

(B) H ubble accumulated data using the Mount Wilson Observatory and help from a fellow astronom

H om er's *The O dyssey* is an epic poem putting a popular oral m yth into w riting for the first tim e. *The* H *istories* is an attem pt by its author H erodotus to provide an **unbiased** account of historical conflicts in the Hellenistic w orld. These two w orks share two important motifs: the interference of the gods in the events of the mortal world, and the concept of a predetermined and unavoidable destiny. One might assume that these two them es are one and the same—a predetermined fate set forth by the gods. However, Homer's and Herodotus's gods are presented as acting in a

- 5 political fashion— each one acting w ithin certain boundaries to accomplish his or her own agenda. As such, the wills of the gods do not coincide to allow for the form ulation of a cohesive "m aster plan." Instead of destiny created by the gods, Homer
 - and H erodotus present fate as som ething beyond the gods— a driving force under w hich the actions of gods
- 10 and m ortals lead to the realization of destiny. In *The O dyssey* and *The H istories*, the idea of gods w ith lim ited pow er leads to a conception of fate w herein the gods act not as the creators of destiny, but as agents of its fulfillm ent.
- 167.W hich of the follow ing, if true, would most strongly support the assumption rejected by the argument of the passage?
 - (A) The gods pursue their agendas by conferring with other gods to ensure that their agendas serve a common goal.
 - (B) The agendas of gods and m ortals frequently coincide with the dem ands of fate.
 - (C) Hom er and Herodotus disagree strongly about the motives and agendas of the gods, as well as about the nature and severity of their conflicts.
 - (D) D estiny would be fulfilled regardless of what activities gods and mortals engaged in.
 - (E) In both H om er and H erodotus, gods and m ortals frequently exam ine their m otives and goals and are capable of m aking their own decisions about w hat to do.
- 168. The author m ost likely uses the term *unbiased* to convey w hich of the follow ing ideas?
 - (A) The historical conflicts are presented in a way that precludes religious explanation.

(B) The historical conflicts are presented in a w ay that does not favor any particular party to the conflicts. (C) The subjects of the histories are not restricted to any particular ethnic, social, religious, or geographical group.
(D) The historical conflicts are explained entirely by reference to the actions of the people and states involved in them.
(E) This histories are w ritten in such a w ay as to challenge the sensibilities of their readers.

C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
169.W hich of the follow ing can be inferred about the gods in <i>The O dyssey</i> and <i>The H istories</i> ?
 □ There are lim its to w hat the gods can accom plish. □ The gods,like hum an beings,pursue their own interests. □ The gods do not control the final outcom es of their actions.
Q uestions 170–172 are based on the follow ing reading passage.

The goal of a sunscreen chem ical is sim ple— to prevent harm ful U V B (and in som e cases U V A) radiation from penetrating the skin. There are two main ways in which this goal can be accomplished—by reflecting (physically blocking) ultraviolet light or by absorbing U V light. Sunscreen chem icals are therefore put into two groups based on which method they employ;

they are classified as either *physical blockers* or *chem ical absorbers*. Physical blockers, the m ost com m on of w hich is titanium dioxide, scatter all radiation in the U V B and U V A range. Titanium dioxide reflects light 5 w aves in the 290–770 nm range. H ow ever, the vast m ajority of com m ercial sunscreens are chem ical absorbers.

C hem ical absorbing sunscreens w ork on the principle of photo-excitation of electrons.

They absorb photons of light of specific w avelengths and use the energy to prom ote electrons betw een energy levels. When the electrons later return to the ground energy state, they em it light at longer w avelengths (low er

- 10 energies). C hem ical species that exhibit this behavior are called chrom ophores. The specific w avelength absorbed by a given chrom ophore is determ ined by the discrete quantal am ounts of energy that are required to excite electrons
 - betw een the energy levels or its m olecules. Since the prim ary objective of an absorbing sunscreen is to absorb
- 15 U V B light (290–320 nm), the best sunscreens are those that absorb m ost heavily in this range. The chrom ophores that m ost readily fit this requirem ent are those with conjugated pi-bonding system s.

170.W hich of the follow ing best sum m arizes the distinction betw een chem ical blockers and chem ical absorbers?

- (A) C hem ical blockers darken their target light w aves w hile chem ical absorbers lighten them.
- (B) C hem ical blockers convert their target light w aves into radiation w hile chem ical absorbers convert them into a different kind of radiation.
- (C) C hem ical blockers disperse their target light w aves w hile chem ical absorbers convert them into light w ith a longer w avelength.
- (D) C hem ical blockers scatter their target light w aves w hile chem ical absorbers convert them into radiation.
- (E) C hem ical blockers prevent light w aves from reaching the skin w hile chem ical absorbers absorb them into the skin.

- 171.B ased on the passage,w hich of the follow ing can be inferred about the chrom ophores referred to in the final sentence of the passage?
 - (A) If exposed to light with wavelengths of approximately 300 nm, they will scatter the radiation.
 - (B) If exposed to light w ith w avelengths in the 290–320 nm range, they will low er the energy level of some of their constituent electrons.
 - (C) If exposed to light waves in the 290–770 nm range, they will absorb the photons and em it them as light of longer wavelengths.
 - (D) If exposed to light with wavelengths of approximately 300 nm, some electrons in their component molecules will switch to higher energy levels.
 - (E) If exposed to light w aves in the 290–320 nm range, they w ill prom ote the discrete quantal am ounts of energy that are required to excite electrons between energy levels.
- 172. Select the sentence in the second paragraph that explains the physical feature on the basis of w hich one could select a chrom ophore for a sunscreen that w ould protect against U V A radiation.

Q uestions 173–175 are based on the following reading passage.

The story of *Sir G aw ain and the G reen K night* has its foundation in A rthurian legend as form ulated and passed down by the pagan oral tradition. In its w ritten form, how ever, the tale bears the marks of C hristian influence—it contains numerous scriptural and doctrinal references to C hristianity. Since the author of *Sir G aw ain and the G reen K night* is unknown,

it is difficult to determ ine with any certainty the extent to which he was responsible for the incorporation of Christianity into the legend. For all we know, the story may have been "Christianized" in its oral form long

- 5 before the poet set it into w riting. The poet him self supports this possibility by w riting in the opening lines that he will tell "anew" the tale "as I heard it in hall." If this is the case (and even if it is not), it is distinctly possible that the heroes of
- 10 the A rthurian tradition represent in the w ritten form a pagan interpretation of C hristian ideals, rather than an externally im posed C hristianization of pagan codes of behavior.

W hile it could certainly be argued that the poet portrays Sir G aw ain as a good C hristian hero in an attem pt to infuse the story w ith C hristian values, the critical tone of the narrative seem s to suggest a different conclusion— that by critically editorializing the paganized form of C hristianity em bodied by Sir G aw ain, the poet is trying to correct w hat he sees to be the flaw s of that form . From the perspective of this conclusion it is clear that the poet only "C hristianizes" the traditional legend to

the extent that he *criticizes* the pagan interpretation of C hristianity that is inherent in the behavior of its heroes.

Those w ho w ould argue that the poet intends to portray Sir G aw ain as the perfect C hristian hero w ould point to the descriptions of his chivalric qualities. The poet does indeed describe G aw ain's C hristian virtues generously; he even m akes a special aside early in the second fit to describe the significance of the pentangle em bossed on G aw ain's shield, and to explain "w hy the pentangle is proper to that peerless prince." The author then delves into a lengthy enum eration of G aw ain's C hristian virtues. W hat is m ore, the fact that he uses the

pentangle— a pagan sym bol— to do it would seem to suggest that the author does indeed intend to add a C hristian interpretation to the pagan legend he is retelling. Taken in its larger context, how ever, this passage

25 takes on a different significance. In further exam ination of the poet's descriptions of Sir G aw ain, it becomes apparent that the knight's seem ingly perfect C hristian behavior is superficial. A contrast can be observed between his "C hristian" w ords and actions and his decidedly un-C hristian m otives. O ne theory is that, by emphasizing this contrast, the poet

C onsider each of the answ er choices separately and indicate <u>all</u> that apply.		
73.W hich of the follow ing can be inferred about the pagan and C hristian origins of Sir G aw ain and the G reen K night?		
 A s an orally-handed-dow n tale, it w as pagan, but as a w ritten tale, it w as C hristian. Sir G aw ain w as a knight in K ing A rthur's court. Sir G aw ain and the G reen K night contains both C hristian and pagan elem ents, although it is not clear that either perspective is dom inant. 		
174.W hich of the follow ing can be inferred from the author's interpretation of the C hristian aspects of the poem presented in the third paragraph?		
 (A) Pagans and C hristians differ in their interpretations of the C hristian sym bolism in the story. (B) A pagan cannot have m otives that are acceptable from a C hristian perspective. (C) A pagan story cannot be used to convey a C hristian attitude. (D) C hristianity w as absent in A rthurian stories before such stories w ere w ritten dow n. (E) B eing a good C hristian involves having both the right actions and the right m otives. 		
175.W hich of the follow ing,if true,w ould m ost underm ine the "theory" m entioned in the final sentence of the passage?		
 (A) Sir G aw ain is portrayed as disingenuous in his exercise of "C hristian virtues." (B) A nother character in the story is also associated w ith pagan sym bols and is praised straightforw ardly for her C hristian virtues. (C) Sir G aw ain,in the story,prays to G od to help him in battle. (D) A nother character in the story is associated w ith pagan sym bols but is portrayed as having no C hristian virtues w hatsoever. (E) A group of people in the story are portrayed as "barbarians" w ho are neither pagan nor C hristian. 		
Q uestions 176–177 are based on the follow ing reading passage.		
V arious tales in H erodotus's <i>The H istories</i> display a circular m eans of the realization of fate.In one story involving the birth of C yrus and his rise to pow er in A sia,H erodotus tells us that the M edian king A styages w as having disturbing dream s about his daughter M andane. W e are told that his first dream ,in w hich M andane's urine flooded all of A sia,w as interpreted		

30 intends to denounce the pagan "m isunderstanding" of the C hristian m essage.

W e are told that his first dream, in w hich M andane's urine flooded all of A sia, w as interpreted om inously by the M agi. As a consequence, w hen the time came to marry M andane off, A styages made w hat turned out to be a fatal m istake. W hile there were plenty of wealthy and powerful M edes eligible for marriage,

- 5 "his fear of the dream m ade him refuse to m arry her to any of them; instead, he gave her to a Persian called C am byses, w hom he found to be of noble lineage and peaceful behavior, although he regarded him as the social inferior by far of a M ede
 - of the m iddle rank." Essentially, A styages altered w hat w ould be a norm all treatment of the m arriage in order to m arry his daughter to som eone less threatening. This attempt to avoid the prophesy of the first dream
- 10 backfired how ever, and when M and ane became pregnant, A styages had another foreboding dream. This second dream was interpreted to mean that M and ane's son would rule in A styages's place. Herodotus tells us that "[the

from tw o m ajor m istakes— m arrying M andane to C am byses and telling H arpagus to kill their offspring. These m istakes in turn are shown to be motivated by fear of the 20 prophesies of his downfall. Had not some divine force planted the dreams in his head, he would not have take the steps necessary to fulfill those prophesies. Through this circular path, destiny is unavoidably realized.
C onsider each of the answ er choices separately and indicate <u>all</u> that apply.
176.W hich of the follow ing can be inferred from the passage about A styages's view of the M edian socio-political structure?
 A s a result of his first dream ,A styages believed the threat his daughter posed to him could be through her husband. A styages believed that it is alw ays best to observe the recom m endations of the M agi. A styages believed that a Persian noble w as less of a threat to his position than a M edian noble.
177.W hich of the follow ing,if true,w ould m ost strongly underm ine the claim that A styages's dow nfall proceeded from tw o m ajor m istakes?
 (A) M andane's son w ould have conquered his grandfather's kingdom regardless of w ho his father w as. (B) A styages's first dream w as in fact a w arning against allow ing his daughter to m arry. (C) H arpagus w ould not have killed the baby regardless of w hether he knew the prophesy. (D) M andane's husband w ould have deposed A styages if he had know n w hy his son w as killed. (E) A styages's dream s w ere better interpreted as advising him not to do anything out of the ordinary.
Q uestions 178–180 are based on the follow ing reading passage.

second dream] w as w hat A styages w as quarding against" w hen he again took action telling his advisor

H arpagus to kill the baby. This plan backfired as well since H arpagus refused to kill the baby, leading to a 15 complicated chain of events whereby the child—later to be named C yrus—survived and returned to conquer his grandfather's kingdom. In this story A styages's downfall is depicted as resulting directly

prophecy of the

N ineteenth century painter A lbert B ierstadt's view of his artistic skill as a vehicle for self-prom otion is w as evident in his choices of style and subject m atter. From the debut of his career w ith the exhibition of *Lake Lucerne* (1856), he developed a fixed style that w as m ost easily recognizable for its size— the largest of the 636 paintings on display at the exhibition, it w as over three m eters w ide. This, coupled w ith the artist's ability to represent the optim istic feeling in

A m erica during the w estw ard expansion, is w hat led to B ierstadt's explosive grow th in popularity during the 1860's.B ierstadt deliberately appealed to those rich patrons— railroad tycoons and financiers— w hose nearest substitute to m aking the arduous journey out W est w as to purchase a hyperbolized replica of a W estern vista.

B ut trends follow ing the C ivil W ar produced a drastic shift aw ay from the adventurous optim ism of the pre-w ar era and tow ard a m ore subdued appreciation for the details of A m erican life. In this new social

- 10 context, the paintings now seem ed too decadent, too gaudy, for the new philosophy taking root in the country follow ing the horrors of w ar. A s one com m entator in 1866 put it, B ierstadt's w ork "m ay im pose upon the senses, but does not affect
- 15the heart." In a sense, then, that same Am erican pride upon which Bierstadt had capitalized to advance his success was now, in its fickleness, the source of his downfall.

- 178.A ccording to the passage,the new "philosophy" taking root in A m erica after the C ivil W ar w ould be best described as
 - (A) justifiable pessim
 - ism (B) som ber realism
 - (C) restrained m inim
 - alism (D) prideful idealism
 - (E) stubborn dogm atism
- 179. The passage m akes use of the phrase in quotations prim arily in order to
 - (A) challenge a prevailing thesis
 - (B) point out an erroneous assertion
 - (C) provide expert testim ony
 - (D) highlight a controversy
 - (E) offer evidence supporting a claim
- 180.A II of the following are mentioned as contributors to Bierstadt's success EX C EPT:
 - (A) the dim ensions of his paintings
 - (B) his ability to convey auspicious feelings
 - (C) subdued appreciation for the details of A m erican
 - life (D) catering to the preferences of the wealthy
 - (E) portrayals of exaggerated landscapes

R eading C om prehension A nsw ers

- 1.(C). This question focuses on the m ain idea of the passage. The reading constantly flips back and forth, taking one side at first, then another on the *forecast for Am erican entrepreneurship*. The author is careful to present his or her argum ents fairly and w ith some reservations (e.g., it is not clear that..., suggests that..., m ay seem..., does not necessarily..., it m ay not bring..., can be...). U Itim ately, the view is balanced, or nuanced. Regarding choice (A), the author does not propose changes. Regarding (B), the author never argues that any group of college students should (or should not) form their own companies. If anything, the author offers both sides of the issue, leaving it up to individuals to decide. Regarding (D), the author offers one fact about the varying rates at which businesses of two types (low-value and high-value) are founded. How ever, the author never evaluates the viability (or likelihood of success) of these types. As for (E), the analogy drawn in the last two sentences is not the main point of the passage; it is a final observation, one that sheds light on the issue, but this analogy is not the prim ary purpose for which the passage was written.
- 2.**(B).**The question asks for a specific detail m entioned or clearly indicated in the text.Y ou should look for very direct proof for the answ er choice you pick.Specifically: *C ollege graduates,unable to find traditional jobs, instead opt to start their ow n businesses*.Y ou should look for a m atch for this concept,slightly rew orded at m ost. C orrect choice (B) m atches the idea that college graduates are *unable to find traditional jobs*.R egarding (A), college graduates w ho start their ow n businesses m ay indeed be ham pered by a lack of access to outside investment, but this is not offered as the reason that they start such businesses.B e careful of answ er choices that restate truths from the passage but do not answ er the specific question posed! A s for (C), it m ay be true that low-value companies have become more prevalent, but again, this does not answ er the specific question.R egarding (D), the choice between renting and buying property is offered only as an analogy, not as a literal choice for college graduates (let alone as the reason for their entrepreneurial decisions).R egarding choice (E), you are told nothing about how forecasts of the unem ployment rate are likely to evolve.
- 3.**(E)**. This question asks you w hat "can be inferred" about the num ber of A m erican high-value businesses. The answ er choices reveal that specifically, you should focus on how this num ber has changed (or m ay have changed) during the course of the recent recession. For an Inference question, you will need proof from the passage, but you will typically need to transform that proof you are not simply asked to look up a fact, and you should be wary of simply matching language in the text to language in the choices. How ever, you should also recognize that there is no fuzziness or room for interpretation. The answer you come to must be rock-solid. In particular, when you encounter mathematical language, you should take extracare to make our argument airtight mathematically. Looking up the key phrase high-value businesses, you find that the proportion of high-value businesses founded each year has declined. Watch out! A syou know from the math side of the GRE, a proportion is not the same as a number. The proportion has fallen, but you are also told that the overall number of new business starts has been higher over recent years. If the overall number is up, but the proportion is down, you cannot tell whether the absolute number of high-value businesses is up or down. (E) is correct what has happened to the number you want is unknown.
- 4.(C).Y ou are told that w om en w ent to w ar as nurses or in providing supplies and that such w om en,including m any old w om en,died in battle. Therefore, Som e of those w ho w orked as nurses or in providing supplies died in battle. In (A),you do not know how other people felt about (lam ented) or m arked the deaths of anyone w ho died in battle.
- Y ou also do not know anything about the courageousness of younger w om en (B), or anything about the status of m en in A sante culture ((D) and (E)).
- 5.(E). The first paragraph introduces bacterial "super-bugs" with some alarm. The second paragraph increases the

alarm ,noting how *m* any scientists argue that the hum an race has *m* ore to fear from viruses. This paragraph describes the way in which viruses hijack the cell, in order to illustrate how tough viruses are to treat. The last paragraph continues the comparison and puts a stake in the ground: bacteria lack the potential for cataclysm that viruses have. This last point is illustrated by the near-m iss you have had with the HIV pandem ic. As for choice (A), you are never told how bacteria infect the body. Regarding (B), the hijacking process is certainly described, but to make a larger point: why it's hard to eradicate viruses, in comparison with bacteria. As for (C), After reading this passage, you may want to call up the CDC and donate money, but the passage itself only raises a warning, if even that — it is not a call to action. Regarding choice (D), the last paragraph does highlight your good fortune, but this is not the larger point of the whole passage. (E) is correct — the passage compares the two threats (bacteria and viruses) and judges viruses to be far more important (after all, viruses have the potential for cataclysm).

- 6.(B). In this Inference question, you must be careful to focus on the keyw ords you are given: *infections by bacteria* (which you could rearrange to *bacterial infections*). What do you know from the text about bacterial infections? Tow ard the end of the second paragraph, one sentence gives you a direct clue: *viral infections cannot be treated ex post facto in the w ay that bacterial infections can.* So you can infer correctly that bacterial infections C A N be treated "ex post facto" (it means "after the fact"). You should look for a match to this idea. Choice (B) gives you what you want. The extra phrase *by antim icrobial agents* isn't much to add; this term is used at the beginning of the passage, and all it means is "stuff that works against microbes, i.e., bacteria." Regarding (A), from the beginning of the second paragraph, you know that bacteria them selves *reproduce asexually through binary fission*, but you don't know that to be true about infections by bacteria. Regarding (C), resistance "cocktails" such as N D M -1 actually make bacteria "nearly im pregnable." So an infection by bacteria that have this cocktail would be less vulnerable, not more vulnerable. Choice (D) is true about viral infections, not bacterial infections. Choice (E) makes little sense; you know only that the virus does critical dam age to the host cell. In fact, it does not seem that bacteria infect organism s in the same way, so it might not even make sense to speak of the "host cell" of a bacterium.
- 7.(A). This Specific D etail question requires you to determ ine w hat is true about *intracellular obligate* parasites (or IO Ps,to give them a tem porary abbreviation). G oing back to the passage, you read this: W hereas bacteria reproduce asexually through binary fission, viruses lack the necessary structures for reproduction, and so are known as "intracellular obligate parasites." The w ord so tow ard the end tells you that the reason viruses are called IO Ps is that they lack the necessary structures for reproduction. Y ou are looking for this idea, perhaps slightly restated. (A) is correct.
- 8.**(B)** Before reading the choices, it is helpful to determ ine for yourself w hat the main idea is. Is the passage really about supernovae, or is it about G alileo, the philosophers, and the ideas being discussed? The fact that the "tw ist" occurs in the second paragraph (you're not talking just about science now you're talking about history and philosophy) supports the position that the second paragraph is more central to the main idea and that the first paragraph is just background inform ation. C hoice (A) is wrong because it does not mention the main content of the second paragraph, the ideas and assum ptions that became controversial. It is also much too broad giving a history of supernovae would take a lot more than two paragraphs. C hoice (B) is correct the passage does describe a "shift in thought" (from an unchangeable "heavens" to a more scientific view), and this shift (at least among intellectuals in Padua) was prompted by a "natural event" (the supernova). C hoice (C) is attractive (juxtapose means "to put next to one another" or "to compare"), but does not describe the main idea. While G alileo and the philosophers certainly had different views about the bright light they saw in the sky, it's not clear that you can say that the philosophers had
- "view s about supernovae" in general.C hoice (D) can be stricken sim ply due to "corroborate" (to prove true or support w ith evidence). The passage is describing, not m aking an argum ent. Finally, choice (E) is m uch too broad! Y ou could spend an entire career discussing how science and philosophy interrelate. This passage covers a m uch m ore narrow topic.
- 9.**I only.**R em em ber that Inference questions are *not* asking you to think for yourself.Y ou m ust not m ake any assum ptions or go beyond the inform ation in the passage.Statem ent I is true because you can prove it w ith the first

sentence of the second paragraph. *In 1604 in Padua, Italy, a supernova becam e visible, appearing as a star so bright that it w as visible in daylight for m ore than a year.* Since this supernova w as visible for m ore than a year, it is possible for supernovae to *take m ore than a year to fade from view*. (N ote that if Statem ent I said "Supernovae *alw ays* take m ore than a year to fade from view," it w ould be w rong.) The second statem ent cannot be proven. Just because you are told that a supernova in 1604 caused a stir does not m ean no one else had ever seen one before. The third statem ent also cannot be proven. Y ou know that G alileo disagreed w ith the philosophers; you don't know that those particular philosophers ever changed their m inds.

- 10.(C). As a result of the supernova in 1604, G alileo gave popular lectures in w hich he "sought to explain" the origin of the "star" and w hich "underm ined the view s" of som e philosophers. That's all you know .C hoice (A) is a bit silly w as the Earth created after 1604? This choice took som e w ording from paragraph and tw isted it around to trick us.

 C hoice (B) is too extrem e you know that G alileo sought to explain the origin of the supernova, but you don't know that he succeeded. C hoice (C) is true you are told that the lectures w ere w idely attended by the public. (A very picky person m ight point out that just because people go to a lecture doesn't m ean they are interested, but all of the other answ ers are definitely w rong, so that confirm s that this is a reasonable that is, very tiny inferential leap.) C hoice (D) is attractive, but is a trap answ er. You know that G alileo, in his lectures, "underm ined" (w eakened) the view s of the philosophers. But you don't know w hat the philosophers' response w as, and you certainly don't know w hether the philosophers w ere opposed to the lectures them selves (a person could be opposed to the ideas in a lecture but still think the lecturer should be allow ed to lecture). C hoice (E) is also attractive because you, as a modern reader, know this to be true in real life. How ever, the question does not ask, "W hat really happened?" It asks "The author mentions w hich of the follow ing as a result of the supernova of 1604?" The author does not mention that the philosophers w ere "proved w rong." (Their view s w ere "underm ined, w hich is m uch less extrem e.) You cannot validate this answ er choice w ith evidence from the passage.
- 11.**I and III only.**K incaid's critics point out that B ritain's government is not as corrupt as A ntigua's.K incaid m akes a w itty rejoinder, but does not deny that the B ritish government is less corrupt than A ntigua's. This, coupled w ith her stated belief that B ritain is responsible for corruption in A ntigua, justifies the first statement. As for the second statement, it would not be surprising if K incaid did think this, but no governments of the "former colonial em pire" are discussed in the passage except A ntigua's. Finally, the third passage refers to "A ntigua's current problems, including drug dealing and selling off land for tourist properties," so the third statement is true.
- 12.**(B).**In m ain idea questions, you can often elim inate one or m ore answ ers just based on the first w ord or phrase: *relate*, *discuss*, *give* a *history*, *m* ake a case, *em* phasize. D oes the passage "m ake a case"? It doesn't like alm ost all GRE passages, it is m erely reporting facts and/or the opinions of others. *Em* phasize is also a bit strange usually, the purpose of a passage is something a little bigger than just "em phasizing" something. W hen you read the passage, you may have determined that the first paragraph simply gives background inform ation about *D* on *G* iovanni, while the second paragraph gives the "twist" even though alm ost the whole world loved *D* on *G* iovanni, people in Mozart's own hom etown were less enthusiastic about it. Choice (B) matches this the passages discusses how a work of art (the opera) has been met by diverging (different, diverse) responses, specifically those of Viennese audiences versus those of everyone else.
- 13.(A). The full sentence is, *The opera m ixed traditions of m oralism w ith those of com edy* a practice heretofore unknow n am ong the com poser's w orks— creating a production that w as not w ell liked by conservative Viennese audiences. R egarding M ozart's m ixing traditions of m oralism w ith those of com edy, the clue a practice heretofore unknow n am ong the com poser's w orks tells you that M ozart had not done this before. Furtherm ore, the clue not w ell liked by conservative Viennese audiences tells you that V iennese audiences did not like this because it w as a departure from tradition. C orrect answ er (A) is a good m atch— a "lackluster reception" m eans that those w ho "received" som ething (the audience) w ere holding unim pressed. N ote that the G R E is trying to hide the correct answ er from you a little bit by saying "a particular group of people" for "V iennese audiences." A Iso note that (D) and (E) could be elim inated straightaw ay— the author does not "argue" or "underm ine" (w hich w ould m ean the author w as

arguing) at any point. O byiously, talking about m oralism and com edy doesn't "rem ind the reader of the plot" (B), and you have no idea (from the passage, at least) what is common in contemporary (modern) opera, so (C) is out of scope.

- 14.(E).Y ou know that V iennese audiences did not like the (new) m ixing of m oralism and com edy because the audiences were "conservative." B ut there's an even better clue: the passage says eighteenth century audiences in Vienna M ozart's ow n city were am bivalent at best. Am bivalent means "having mixed feelings or undecided." At best is an expression meaning or worse.(E) is a direct match with a sentence from the passage. Note that (A) and (B) contain extreme language (purely, unequivocally). Choices (C) and (D) go too far. You have no indication that audiences were confused or offended, merely that they didn't like or had mixed feelings about a work of art.
- 15.**II and III only.**R egarding the first statem ent,w atch out for extrem e language! R edlining never "ceased";you are told it *m* ay have continued in less explicit w ays. The sam e part of the passage provides good support for the second statem ent redlining has become less explicit, or overt. Finally, you are told that W ith no access to m ortgages, residents w ithin the red line suffered low property values. Thus, access to m ortgages is related to higher property values.
- 16.**(D).**Y ou are told that *reverse redlining occurs w hen predatory businesses specifically target m inority consum ers for the purpose of charging them m ore.*C hoices (A) and (B) describe *regular* redlining,the practice of denying service or constraining access to som ething like jobs.R edlining is about businesses,not police,so (C) is out. C hoice (E) does m ention targeting m inority consum ers,but does not give an exam ple of offering inferior products or overcharging (reverse redlining is discrim inatory,and choice (E) describes a perfectly norm all ad campaign).C hoice (D) is a perfect m atch,and a good example of what is described in the third paragraph.
- 17.**(E)**.In the first paragraph, you are told that *W* ith no access to m ortgages, residents w ithin the red line suffered low property values and landlord abandonm ent; buildings abandoned by landlords w ere then likely to become centers of drug dealing and other crime... The lack of access to mortgages is due to redlining. Thus, redlining causes landlord abandonm ent and the resultant effects (E) is a perfect m atch. Note that (A) mentions "subprime mortgages" and "defaults," which are never mentioned in the passage. (B) incorrectly cites reverse redlining rather than redlining. (C) gets the relationship between redlining and landlord abandonment backwards. (D) is just wrong "constrained access to health care, jobs, insurance, and more" is mentioned as part of the definition of redlining.
- 18.**I and III only.**Y ou are told that "germ ophobic" W estern society eschews premastiction, which provides "beneficial bacteria," so the first statement is true. The word *only* kills the second statement watch out for extreme language! If just one person outside of the developing world premasticates food for a baby, this statement is false, so you cannot infer it. Finally, you are told that *babies also received antibodies and digestive bacteria from the mother's saliva*, so saliva has at least one benefit (antibodies) aside from digestive bacteria.
- 19.**(B)**. The author discusses B ois and D am isch's m etaphor ("a dynam ic gam e"), calls it m isleading, and proposes an expansion beyond the competitive aspect. (A) is incorrect, as the author does not claim that the two artists were the best. (C) only addresses the details and evidence presented in the passage but not the main point. (D) and (E) are both distortions because the passage does not rank the painters, and these issues are again not the point.
- 20.**(D).**This question type asks for a com bination of the point,tone,and,perhaps,structure. The author expresses the point at the end of the first paragraph by suggesting that the rivalry betw een Picasso and M atisse w as m ore of a dialogue or exchange. (A) is an incorrect comparison because the passage rejects the idea that such rivalries are mere competitions. (B) distorts a detail by adding an opinion not stated in the passage. The author writes about the artists employing multiple styles, but never implies they are masters *because* they employ multiple styles. (C) is a distortion based on misreading the "conversation" metaphor. (E) is incorrect, as the word *generally* is a claim that the author does not make; you are only told about one particular rivalry.

- 21.**(C)**.In the last paragraph,the passage states that M atisse used the sam e palette in his w ork but om itted the green. (A),(D),and (E) are incorrect because they cite com m ents about *Large N ude in a Red Arm chair*,not *W om an w ith Yellow H air*.(B) is backw ards the passage states that M atisse's response, as opposed to Picasso's w ork, did not rigidly tie color to form.
- 22.**(E)**.In the third paragraph, the author refers to M atisse as the older artist. C hoice (A) is not true; the phrase "sensuous, rich m ood" w as used in the passage to describe a w ork by M atisse, not Large N ude in a Red Arm chair. C hoice (B) is w rong because the author, at the end of the passage, uses seem s to be saying and that indicates that it w as not actually said. (C) is incorrect the passage states that they were "occasional friends." (D) is a distortion; the passage only says that M atisse's response came a decade later, not that he had worked on it throughout that time.
- 23.**(B).**The author's point w as that the rivalry w as m ore of a dialogue than a com petition.(A) and (E) are not correct because those choices do not say anything about the nature of the rivalry and no m ore can be assum ed.(C) is w rong because the author's point w as that their relationship w as m ore than a competition.(D) m is construes the m etaphor that the author rejects.
- 24.**(C)**. The last paragraph devotes itself to highlighting the problem atic im plicit m essages of tim elines. (A) is a distortion; the author does not claim dates are unim portant but that historical study should go far beyond m ere dates. (B) and (E) are backwards, as these are two of the implicit m essages that the author rejects. (D), while quite likely, does not have to follow—the author implies that there is more to history than wars and minor battles, punctuated by the occasional presidential election and technological innovation but does not specify that content.
- 25.**(D).**Essentially,this question tests vocabulary. The point of the passage is the problem s w ith tim elines, and the ending is a w arning portentous can m ean "om inously significant." The w ords in (A) w ould never describe a G R E author. In (B), the author is not bem used, or am used, at all. N or is the author resigned or com placent. (N ote: it w ould be rare for a G R E author to be called *negative*, but this passage w ould arguably be just such a rarity.)
- 26.(**D**). The last paragraph discusses the negative im plicit or sublim inal issues with tim elines. In that paragraph, since the author indicates that an im plicit flaw is show ing "only" 64 events, it must follow that there are more.(A) is out. In the second paragraph, the author worries that the prominence of the dates will draw too much attention, so elim inate (B). In the first paragraph, the author says, *D* espite their usefulness in allow ing students to gain a cursory know ledge... This means that timelines have some positive uses. cross off (C). As for (E), in the last paragraph, a flaw cited is that timelines portray an "official" history; thus, unofficial histories must have virtues.
- 27.**(B).**In the last paragraph, a listed im plicit flaw is that the events are presented as independent w ithout context. The passage m entions their prom inent placem ent (A) and use of photos (E), but does not suggest that these are the problem s.(C) is false, as the passage states these tim elines had beginnings and ends. R egarding (D), the author does not challenge the factual accuracy of tim elines.
- 28.**(C)**. *M* yopic m eans "near-sighted," and the author em ploys it to describe the inability of som e curricula to see the big picture. Sim ilarly, purblind m eans "partially blind or deficient in understanding." (A), (B), and (D) are not justified by evidence from the passage ignorance and bigotry are not m entioned as problem s. *Astigm atic* indicates visual distortion, but the passage spoke of m issing elem ents. *M* ordant, m eaning "caustic or corrosive," has no connection to the passage.
- 29.(A). The second paragraph further describes one of the two factors named in the first paragraph. (B) is incorrect because the passage does not contrast the factors (the second paragraph does not even mention the Diam ond Necklace

- A ffair).(C) is out of scope and irrelevant as the passage is about M arie A ntoinette's unpopularity,not the court or corruption.(D) is incorrect;the last paragraph discusses the results.(E),w hile arguably the m ain point of the passage, goes beyond that of the second paragraph,w hich does not discuss consequences.
- 30.(**C**). The third paragraph m entions *countless aristocrats w ho sued to the king on Rohan's behalf*, so it m ust be true that a significant proportion w as m ore loyal to the accused. N othing in the passage refers to jealousy and nothing im putes that the queen's w ealth w as the cause of the aristocrats' dislike.(A) can be elim inated.(B) does not have to follow; the passage only says pam phlets were popular with the general public it could, but doesn't have to be true that a large percentage of aristocrats read them. Similarly, the passage does not give such literacy rates so they, no matter how likely, cannot be assum ed.(D) is out.(E) is completely out of scope.
- 31.**(D)**. This detail question concerns the second paragraph, which cites a reduction in royal censorship as a cause. (A) is out of scope; the education of wom en is never mentioned. (B) is a distortion; the passage says publications, not the literacy rate, tripled. (C) is incorrect, as the passage does not discuss the number of scandals over time. (E), how ever likely, is not mentioned in the passage.
- 32.**II and III only.**The first statem ent can't be proven the passage does not indicate w ho the clever forger w as.The second statem ent is correct the passage identifies R ohan as a "social clim ber." In the third paragraph, the author states that 10,000 people cam e to the doors of the Bastille dem anding Rohan's release.
- 33.**I only.**The point of the final paragraph is that the queen's unpopularity caused significant problem s for the monarchy. You do not know if the queen met Rohan; she wouldn't have to meet someone personally to order that he be punished. The third statement is backwards: the queen's power must have had limits since Rohan was released despite her prosecution.
- 34.**(C).**This is essentially a vocabulary question. *D isinterested* does not m ean "uninterested" it m eans "unbiased." G R E authors are never described as *arrogant* or *supercilious*, as these w ords are too negative (and inappropriate). It is also very unlikely that *prim*, *m eretricious*, or *lascivious* w ould be correct for the sam e reason. A s for (E), the author is *analytic*, but no phrases or adjectives in the passage justify *enthusiastic*.
- 35.**(C).**A fter the theory is described,the rem ainder of the passage cites studies and opinions that disagree in part or in w hole.(A) is incorrect because no additional support is provided.(B) is incorrect,as the criticism s are not a *screed*,w hich is a long diatribe (and w ould be inappropriate from a G R E author).(D) is incorrect because it is not the author's credentials that are questioned.(E) is w rong there is no ridicule.N ote that (B),(D),and (E) all express inappropriate attitudes for a G R E author.W hile authors can certainly argue for or against som ething,or express som e enthusiasm or support,G R E authors do not rant and rave,and only very,very rarely *ridicule*,or question the integrity of those w ith w hom they disagree.
- 36.**(D).**In the second paragraph,D 'Em ilio's critics question his use of the w ord *free*.(A),(B),and (C) are topics that are not m entioned.(E) is at best a distortion w hile one critic argues,in opposition to D 'Em ilio,that industrial capitalism w orsened the position of w om en,the issue is not fram ed as one of sexism.
- 37.**(E).** The Low ell G irls are m entioned to show that historically *free labor has hardly been free at all.*(A) is incorrect that is the subject of the last paragraph, but does not concern the Low ell G irls.(B) is incorrect that is the subject of the third paragraph, but does not concern the Low ell G irls. The answ er m ust come from the part of the passage referenced.(C) is backwards this argum ent is put forth by D'Em lio's critics.(D) is a distortion, the reference is to show how historically norm all this situation was, not to contrast two supposedly parallel groups of un-empowered workers.

- 38.(C). The answ er has to be som ething that *m* ust follow from the discussion of D avis in the last paragraph, not som ething that he or she could or likely w ould agree w ith.(C) is correct because D avis argues that w om en w ere the losers in a double-sense ... leaving m any w om en largely bereft of significant econom ic roles. If being "bereft" of an econom ic role m akes one a "loser," it is not going too far (in fact, it is less extrem e) to say that People w ithout econom ic roles are disadvantaged.(A) is w rong, as it is an opinion of D 'Em illio's m entioned in the first paragraph.
- (B) is w rong, as it is an opinion of Enloe's m entioned in the second paragraph. (D) In the last sentence of the passage, D avis actually states that the "entire economy" has left the household.
- 39.**(C)**.A "best title" question asks for the m ain point. The point of this passage w as to highlight trenchant criticism s of D 'Em ilio's w ork the lack of any rebuttal of these points indicates that the author sym pathizes w ith them .(A), (D), and (E) are incorrect because they ignore that the passage concerns scholarly opinions rather than the history itself.(B) is incorrect, as no reconciliation is attempted. A dditionally, (E) is closer to D 'Em ilio's view than the author's.
- 40.**(D).** "U nique" is a secondary m eaning of *peculiar*. The author uses it in the context of M atisse learning som ething that Picasso had done. Of the w rong answ ers, (B) and (E) at best come from prohibited outside know ledge, w hereas (A) and (C) are the opposite of the intended m eaning anything *strange* or *unknow n* to Picasso w ould be something he doesn't do; *peculiar to* Picasso m eans something that he's known for doing.
- 41.(A). The author both describes the w ork (*The O chre H ead*) and the inspiration for that w ork (*Still Life w ith Ancient H ead*).(B) is a distortion, as the passage does not rate the painters.(C) is a distortion as the passage describes a painting but not how the artist developed his style.(D) is incorrect, as the passage indicates that this w as a new direction rather than a representative w ork.(E) is out of scope because the passage only discusses two painters, not the art w orld.
- 42.**(C).**W hile the author clearly appreciates the w ork,its place in the hierarchy is not discussed.(A) is incorrect the passage states that *colors* … *refuse to be constrained by definite lines of form* .(B) is w rong as the end of the passage states that the painting's composition references a Picasso w ork.(D) is backwards the passage says the technique is not employed with the free reign used in *M inotaur*.(E) is w rong as the passage says a vase of flow ers and a bench are depicted.
- 43.**(C).**To answ er a question of this type,one m ust find the other four choices in the text.In the third paragraph,(A) is m entioned verbatim .(B) is justified by "hearing speakers," and (D) by "w rite autobiographical essays." (E) is m entioned explicitly.
- 44.**(D)**. The passage, after establishing problem s w ith textbooks, proposes film as a vehicle for teaching history. Since film is m entioned as a current alternative, it is being used now to teach history, but the author w ould like to expand this use. *D idactic* m eans "intended to instruct," so film s used to teach history w ould certainly qualify as a "didactic tool." (A) is out of scope and ignores the educational thrust. (B) and (C) do not include the bulk of the passage, w hich propose film as a learning tool. (E) is too negative a GR E author w ould not *denigrate* and *philosophy* is an inappropriate w ord for the passage (using textbooks is hardly a *philosophy* so m uch as just a com m on practice).
- 45.**(B).**The answ er to detail questions m ust be found in the text,not through your own reasoning. The second paragraph quotes W ong to assert that committees w rongly value facts over perspectives, thus justifying "m isplaced priorities." Leaving aside their merits, (A), (C), and (E) are not mentioned in the passage and outside know ledge is not allow ed. (D) is the opposite of what you are looking for.
- 46.(B). The final paragraph begins by m entioning the m ain criticism of this proposal but then argues that this

supposed flaw is in fact a virtue and a golden opportunity.(A) and (D) ignore the author's rebuttal to the criticism.(C) is problem atic, as the paragraph is concerned with one particular tool — film.(E) ignores both the criticism and rebuttal and merely mentions an out-of-context detail.

- 47.(A).In the last paragraph, the passage states that the m ain critique of the use of film s to teach history is their ram pant inaccuracies and biases. Then, the author goes on to argue that this can be a positive: these seem ing flaw s are actually part of the reason w hy film is an ideal teaching tool, because teachers can lead discussions of the film 's problem s and biases. Thus, the author certainly argues that students can benefit from exposure to inaccurate accounts of history (not that students w ould alw ays benefit, but that students can benefit w hen the inaccurate film is accompanied by critical analysis). The other choices cannot be justified. (B) does not have to follow; the passage only lists both as alternatives. (C) is too extrem e preferences do not equate to capacity. (D) is a preference of the state committees, not the students. (E) is backwards the last paragraph states that students can benefit by such exposure.
- 48.**III only.**The first statem ent is w rong,as the passage contrasts *appealing*, *expressive paintings that are often the m ost popular m useum attractions* w ith constructivist,m ore recent art. The second statem ent is also w rong the constructivist art, not the expressive paintings, is referred to as "brainy" in the passage. N ote that these first two statem ents m ay very w ell be true in real life! B ut that is not w hat you are being asked. The question asks w hich statem ents can be inferred *from the passage*. The third statem ent is true contem porary art is called "cold" in one sentence and "brainy" (or *cerebral*) in another sentence. In the final sentence of the paragraph, you are told that this brainy constructivist art is linked to expressive painting by using gesture as an expressive tool.
- 49.**I,II,and III.**The author calls *Iroquois: precarious,yet stable and balanced*,w hich is a good m atch for the first statem ent (*precarious* and *unstable* are reasonable synonym s). The second statem ent is a good m atch for the final sentence, Iroquois *resonates w ith an energy born not of the physical quality of the sculpture ... but rather of the* gestural *quality of the form* s. The third statem ent is a good m atch for the sentence, *As one contem plates* Iroquois ... *the linear form s becam e considerably m ore com plex than one m ight presum e.* If the form s are m ore com plex than one m ight think, it follows that some find the form s simpler than they really are.
- 50.(E).(A) is w rong because R ousseau did argue for a social contract, meaning there should be some kind of law.(B) is w rong because R ousseau did not think mem bers of a state should surrender their rights to a single person.(C) is w rong because R ousseau did argue that people could claim property if they needed it, implying the existence of private property in his ideal society.(D) is w rong because R ousseau did not want to dismantle the social contract entirely, but to replace it with his own ideal social contract.(E) is the answer because R ousseau desired a society where property can be taken ... to the degree necessary for the subsistence of those taking it.
- 51.**(B)**.(A) is incorrect because you are told *In a state of nature* ... the rich would have great difficulty protecting the property that they possess. This means the rich would still exist.(B) is correct because this is precisely what the sentence cited above says, while (C) is the opposite of what the passage says.(D) is wrong because the passage says the social contract is developed in order to protect the rich, and it must develop out of a pre-law state of nature.(E) is wrong because it comes from the fourth paragraph, which discusses R ousseau's vision for a perfect society, rather than a pre-law society.
- 52. To obtain assent to the contract, the rich focus their rhetoric on a seem ing equality of obligation by creating rules that apply equally to all m em bers of society. This is the sentence that show s how the w ealthy are able to convince the poor to agree to the sam e social contract that will allow them to be defrauded. Be careful not to go looking in the passage for specific language mentioned in the question (hoarding or system atized) on select-the-sentence questions like these. More often than not, that will lead you to the wrong sentence.
- 53.(A).C hoice (A) is correct because the passage says that people should only take som ething if they need it (i.e., for

survival).(B) is w rong because it is the exact opposite of w hat the passage says,in that people should *not* sim ply enrich them selves w ith property.(C) is w rong because though a house could be protection,that's not w hat *subsistence* m eans.(D) is w rong because it isn't specific enough.(E) is w rong because it m akes no sense at all.

54.(A).C hoice (A) is correct because Lackey believed that soldiers were not terrorists and M erari believed that state actors could not be terrorists.(B) is w rong because M erari never gave his opinion on the issue of civilian versus non-civilian attacks.(C) is w rong because w hile the passage argues that it is difficult to define the w ord terrorism, neither of the authors in question explicitly says it.(D) is w rong because neither author weighs in on that subject.(E) is w rong because M erari narrows the definition down to violence perpetrated by sub-state insurgent groups. An elite branch of a country's military does not match this definition.

55.(**E**).C hoice (A) is w rong because it is the exact opposite of how *sub-state* is used in the passage.(B) is w rong because sub-state insurgent groups m ight be capable of terrorism, but they are not necessarily terrorist.(C) is w rong because it w ould be redundant w hen used in the sentence, and it has nothing to do w ith *states* at all.(D) is w rong because anarchists w ant to bring about a society w ithout governm ent; they do not sim ply operate outside of a governm ent's jurisdiction.(E) is correct because M erari uses it to draw a contrast w ith governm ental m ilitaries, w hich he thinks are not capable of terrorist acts.

56.(**B**).C hoice (A) is w rong because Lackey discusses the difference betw een an act that targets innocents and one that targets soldiers.(B) is correct because though the passage does say that the term is prevalent in everyday conversation, this is not a reason that it is difficult to define. N ote that just because a statem ent is true does NOT mean it is relevant to the specific question being asked! (C) is w rong because the third paragraph discusses these issues of circum stance.(D) is w rong because M erari discusses w hether state actors can commit terrorist acts.(E) is w rong because M erari says that the broader the term becomes, the less useful it becomes in a dialogue, implying that this needs to be taken into account when trying to define the word, in order to maintain its utility.

57.**III only.**The first statem ent is w rong because,w hile B aldw in takes issue w ith the average 1930's H ollyw ood m ovie for failing to represent anything other than the dom inant culture, that doesn't m ean he w ould find an individual film focused on A frican A m erican culture any better. It could be bad for other reasons. The second statem ent is w rong because even though a film that focused only on A frican A m erican issues could be just as lim ited as one that failed to focus on such issues, there is a significant difference: one w ould be reinforcing the dom inant culture, w hile the other w ould be presenting an alternative culture. B aldw in w ould thus be unlikely to find them equally problem atic. The third statem ent is correct because the predom inant culture in the 1930's w as w hite, so the film in question w ould be less likely to reinforce that culture, given that it w ould feature only A frican A m erican issues and actors.

58.(**D**).C hoice (A) is w rong because the quotation has to do w ith children and their ability to relate to a given w ork of art,rather than the culture of pow er.(B) is w rong because the quote does not discuss w hite culture specifically.(C) is w rong because the passage never says that A m erica w as hungry for a w riter like B aldw in — m ake sure not to insert your ow n ideas or outside know ledge.(D) is correct because even though the quote doesn't explicitly m ention black children, the point is that children in general can't relate to a dilem m a that doesn't relate to them .B ecause the passage tells you that H ollyw ood films of the era dealt w ith w hite issues and em ployed w hite actors, you know that they w ould not have related to black children, w ho w ould have thus been alienated from m ainstream culture.(E) is w rong because the passage doesn't say that children couldn't derive any educational value from films they can't relate to, only that they w ould feel alienated because their lives w ould not be represented in the films.

59.**(D).**C hoice (A) is w rong because *assiduous* m eans "diligent," w hich is irrelevant here.(B) is w rong because the people studying art do not have to be artistic.(C) is totally off-base.(D) is correct because *erudite* m eans "know ledgeable," and know ledge w ould allow som eone view ing the frieze to recognize its unique qualities.(E) is w rong because this is a question of know ledge, not applying technical or scientific skills.

- 60.**(C)**.C hoice (A) is w rong because m any of its characteristics have in fact been w orked out.(B) is w rong because the passage is not prim arily about artistic interpretation.(C) is correct because *sui generis* m eans "unique," and the frieze is said to be unique in two w ays.(D) is incorrect because only one paragraph discusses the existence of m ortals in the frieze, and because, of course, this title is m uch too broad.(E) is w rong because none of the characters are ever said to be "continuous" (w hich doesn't actually m ean anything).
- 61.(D).C hoice (A) is incorrect because the first sentence tells you that the Parthenon w as constructed in the H igh C lassical Period.(B) is incorrect because the same sentence says that the Parthenon w as regarded as a great architectural and artistic product.(C) is incorrect because the frieze is said to have come from the temple-cham ber of the Parthenon.(D) is correct because the passage only says that it is difficult to reconstruct the frieze, not the Parthenon overall.(E) is incorrect because the frieze w as part of the Parthenon and it is said to be unique.
- 62.**(E).**C hoice (A) is w rong because you have been told that m any G reek w orks of art featured scenes from m yths and legends.(B) is w rong because that kind of frieze exists in the Parthenon,so it w ould not be unique.(C) is w rong for the same reason as (A).(D) is w rong because you are told that scientists regularly m ake an inventory of figure-types and characters on a given incom plete frieze to try to w ork out w hat w ent in the m issing spaces.(E) is correct because the passage says that the frieze featured the first m ortals *in the history of G reek art*. Thus, no *m urals* from that time have done this (according to the passage).
- 63.(C).C hoice (A) is w rong because the passage only discusses the w ays in w hich Sandra C isneros's w ork puts the burden on the reader.(B) is w rong because the passage only discusses a single one of Isabel A llende's books.(C) is correct because the second paragraph says that Sandra C isneros's short story collection does have interrelated stories, but they do not use the sam e characters or setting in each story.(D) is w rong because intuition is not actually a part of Sandra C isneros's w riting.(E) is w rong because the passage does not compare short story collections w ith interrelated stories.
- 64.(E).C hoice (A) is w rong because w hile tone is m entioned in relation to Sandra C isneros's w ork, it is not m entioned in relation to Isabel A llende's w ork.(B) is w rong because w hile time is m entioned in relation to Sandra C isneros's w ork, it is not m entioned in relation to Isabel A llende's w ork.(C) is w rong because w hile sim ilarities in characters is m entioned in relation to Isabel A llende's w ork, it is directly said not to exist in Sandra C isneros's w ork. (D) is w rong because w hile setting is m entioned in relation to Isabel A llende's w ork, it is directly said not to exist in Sandra C isneros's w ork.(E) is correct because character and setting are m entioned in relation to Isabel A llende's w ork, w hile only m ood, circum stance, time, tone, and im agery are m entioned in relation to Sandra C isneros' w ork.
- 65.**I and II only.**Statem ent I is correct because R othbard only says that there were better [econom ists] than Sm ith. That means that at least two were better than Sm ith, but Sm ith could still have been the third best (you certainly don't know that R othbard actually thinks that Sm ith comes in third place, but the question asks for statements that simply do not contradict R othbard's remarks). Statement II is correct because R othbard says that Sm ith's book "eclipsed public know ledge" of better economists, meaning it had influences that it shouldn't have. The third statement is not correct because of the first line of the third paragraph, Even Sm ith's critics do not deny the book's immense influence.
- 66.**(C)**. The "Invisible H and" is described as the idea that *individuals pursuing their ow n self-interest could unintentionally create a m ore just society*. (A) is w rong because no one is acting all that selfishly here, nor is the final result particularly just this w ould be a better choice if the m oviegoers' actions som ehow caused a benefit to people other than them selves. (B) is w rong because it has little to do w ith selfishness or justice, but w ith another aspect of Sm ith's w ritings. (C) is correct because this system prom otes selfishness (each student tries to sign up as quickly as possible for each class, w ithout thinking of others), but those classes are then said to be "equitably distributed." (D) is w rong because raising prices isn't inherently selfish, no one appears to be competing, and the end

- result is not particularly just.(E) is w rong for the sam e reasons as (D).
- 67.**(D)**. The passage clearly indicates that C hanel and V ionnet are exam ples illustrating a theory that personal virtues are "irrelevant" to m aterial success.(A) is a distortion, as "irrelevant" indicates no relationship, not an inverse one. (B) confuses an exam ple given in the passage w ith the purpose of the passage, and creates a hierarchy that the passage did not.(C) again confuses exam ple and purpose; furtherm ore, the passage does not focus on aesthetics.(E) is an irrelevant comparison and also confuses exam ple and purpose.
- 68.**(B).**W hen a question uses the phrase "in order to" the correct answ er will address the author's purpose for inserting the detail rather than the literal meaning.(A) is at best unknown, as her company was in operation before the war.(B) is correct because the information supports the author's theory that personal virtue is irrelevant to material success.(C) comes from the wrong paragraph, as this information about V ionnet does not "highlight" anything about C hanel.(D) is out of scope and not supported by anything in the passage.(E) is a distortion; the author mentions that V ionnet could be so thought of, but his point is merely about her personal integrity and does not address said credentials.
- 69.**(D).**In the first paragraph,the passage states that seals *w* ho sleep on land at night but spend *m* ost of their days in coastal *w* aters are analogous.N one of the other choices accurately follow s the pattern of this analogy.
- 70.**(C).**The author contrasts her to trained scientists and, having given criticism s of the theory credence, sides w ith them .(A) is nonsensical as a "proponent," she is not objective by definition. To an extent, (B) reverses the author's point of view; it is irrelevant because the passage does not address this issue.(D) is exactly backw ards.(E) brings up an issue that is not mentioned and does not have to follow from the text.
- 71.**(D).**The author states that the Tokugaw a period in Japan w as a m odel for patterns of organization, and w rites, as psychologists, social historians, and Biblical prophets have all observed, in varying w ays, hum ans inevitably fail to anticipate unintended consequences. This certainly qualifies as a "com m on failing." (A) is incorrect, as Iceland is only m entioned briefly as an analogy. (B) is w rong both because the author does not express a point of view and because the issue is the result rather than the im position of a fixed order. (C) addresses a very m inor detail, not the purpose. (E) is a comparison that the passage does not address and therefore cannot be inferred.
- 72.**(C)**. The author states that the inversion of the financial and social rankings led to the decline of Tokugaw a society. (A) and (B) are both incorrect because the passage states that social mobility was prohibited and that facet of the society became problem atic. (D) does not necessarily support that point—for one, no reason for any such revolt can be assumed. (E) is also incorrect; while the author does mention foreign pressure as leading to the collapse of the government, the question concerns the decline of the society, which began long before A dmiral Perry's arrival.
- 73.**(C)**. The author states that unifying G erm any under Prussian rather than A ustrian rule m ade w ar m ore likely.(A) is a result of the treaty but the author does not imply that it w as negative.(B) is based on inform ation from the first paragraph and is irrelevant to this question.(D), while true, is unmentioned in the passage and thus not correct.(E) is w rong because it is a distortion to state that the author thought unifying G erm any itself w as the problem.
- 74.(A). The passage m entions the m ilitary brilliance of Prinz Eugen of Savoy, so (A) m ust be true and is correct.(B) and (E) are both incorrect because the author does not create hierarchies of importance in either case, thus no particular ranking m ust be true.(C) and (D) are incorrect because the passage does not indicate w ho w on and w ho lost.
- 75.**(B).**The author discusses two ideas, but subtly dism isses the objectivity of the first's adherents in the last sentence of the first paragraph. Phrases such as *it is no w onder* indicate an implicit sympathy for the second

suggestion.(A) distorts the point, as "theories" are not the same as ideas, the two ideas are not exactly "opposing," and the issue is not a "process." (C) is incorrect — the last sentence of the passage undermines "definitively" and "program s" are not the same as ideas.(D) is wrong because *dearth* means "lack," and Lew is's work is certainly very popular.(E) is incorrect because, in addition to missing the point, there is no critique, only a very brief description.

- 76.**(D).**The passage only notes that Lew is's topics include both baseball and finance;the parallels m entioned are betw een the protagonists,not the professions.(A) is incorrect; "gam ing the system" is idiom atic.(B) is incorrect; the fourth sentence of the second paragraph describes Lew is's protagonists.(C) is incorrect; m ovie m aking, used as evidence, is part of popular culture.(E) is incorrect; the introductory discussion of Lew is's education can fairly be called a m ention of form ative influences.
- 77.**III only.**Statem ent I is w rong because a person driving his own car isn't a public service (the skateboarder is also a pretty transparent play on the idea of a "rider"). II is w rong because the free rider problem concerns people enjoying benefits w ithout paying for them ,not people paying different am ounts for the same service. III is correct because in this instance, the action of m any free riders leads to a system ic problem.
- 78.(C). C hoice (A) is w rong because now here in the passage is it stated that free riders cannot be blam ed.(B) is w rong because now here in the passage is it stated that free rider problem s are not w orth w orrying about.(C) is correct because the first sentence of the last paragraph says that in some cases, the free rider problem is view ed as a necessary cost of governm ent, im plying that in other cases, it is not.(D) is incorrect because national defense is cited as an exam ple of the inevitability of free rider problem s, not as proof that they need to be stam ped out as quickly as possible.(E) is incorrect because the passage does not discuss the m orality of free riders.
- 79.**I and III only.**R egarding the first statem ent,the passage claim s *m odern hum ans are know n to have diverged hundreds of thousands of years before m odern hum ans left Africa*. To say that they diverged is to say that two species share a com m on ancestry to that point. R egarding the second statem ent, whether modern hum ans and N eanderthals interbred is a matter of controversy (*The team 's conclusions w ere answ ered w ith skepticism on a num ber of fronts*) and thus this answ er cannot be definitely true. Finally, although the passage does not endorse the claim that modern hum ans and N eanderthals interbred between 60,000 and 100,000 years ago, it treats as given the claim that the two species lived near one another during that interval (*for roughly forty thousand years of that w indow N eanderthals and m odern hum ans lived near one another in the M iddle East*).
- 80.**III only.**The passage says that *Paleontologists and archaeologists charged that the conclusion w as unsupported by archaeological evidence*,so they appeal to archaeological evidence to criticize Paabo's conclusions. Statem ent I is w rong because there is no suggestion that the contam ination of N eanderthal D N A w ith m odern hum an D N A w as deliberate, nor even that it w as done by Paabo, nor is any other reason offered to doubt his integrity. Statem ent II is w rong because there is no suggestion that they ignore D N A evidence, even if they are not as persuaded by it as Paabo and his team .
- 81.**(D)**. The passage claim s that the reflecting surface m ust be far enough aw ay so that the sound of the echo is distinct from the original sound, but not so far aw ay that the sound is completely dissipated. You can use that inform ation to elim inate (A) and (B). The passage also claim s that multiple reflecting surfaces are apt to produce a reverberation rather than an echo, so you can cross off (C). The anechoic chamber is said to prevent echoes with *sound-absorbing fiberglass w edges*, so (E) is also out.
- 82.**II and III only.**The echo cham ber is constructed with *the acoustical properties of a sm all cathedral* precisely in order to create echoes.M ountains, along with buildings, are offered as an example of the sort of reflecting surface likely to bring about an echo.

83.**I only.**The first statem ent is justified because in the second paragraph,de B eauvoir is quoted as saying exactly so. The second statem ent is not justified because at the end of the first paragraph,de B eauvoir indicates that w om en *are view ed as intrinsically passive and im m anent*. This does N O T m ean that de B eauvoir believes this (in fact,the second paragraph gives good evidence that she believes precisely the reverse). The third statem ent is not justified because, although de B eauvoir view s both self-constraint and im posed constraint (*oppression*) as negative, she does not indicate w hich type she considers to be w orse.

84.**II only.**In the first paragraph,the passage states that im m anence is considered "a degradation" before going back and forth betw een im m anence as a freely chosen m oral fault and im m anence as the result of oppression. Thus, im m anence is not alw ays characterized as either.

- 85.**(D)**. The first sentence of the passage tells you that existentialist ethics were a major influence on de B eauvoir's philosophy. Much of the rest of the passage is devoted to explaining that philosophy. (A) is too broad, as the passage doesn't explain all of existential ethics, of which transcendence is just one concept. Similarly, (B) is too broad as the passage does not discuss all of feminist theory, just de B eauvoir's. (C) is wrong—the passage is not a diatribe (the word *diatribe* is almost certainly inappropriate to describe any GR E passage). Choice (E) is again too broad and off the point.
- 86.(A). The author's prim ary purpose in w riting this passage is to explain the distinction betw een science and non-science via historical exam ples, such as those of A ristotle and G alileo. The author begins by positing the question of differentiating the two, and then goes on to use historical exam ples to explain why each does or does not meet the qualification for modern science. In (B), the author never criticizes the Ancient G reek philosophers, just labels their method unscientific. In (C), now here does the author claim that it is important to follow G alileo's scientific method, just that this is now the modern definition of science. Regarding (D), the author never makes mention of the historical definition of science. In (E), the author never argues that the findings of G alileo are more important than those of A ristotle. Further, the author only discusses one finding of each philosopher/scientist, so this answer is out of scope.
- 87.**(D).**G alileo's m ethod forced one to first form a hypothesis, then design an experim ent to confirm or deny this hypothesis, and then accept or discard the hypothesis based on one's findings. A ristotle's hypothesis w as that solids w ere the least expanded form of m atter, and the experim ent he designed to prove this w as to show that solids sank w ithin liquids of the same type. As this did not hold true for w ater, under the G alilean m ethod A ristotle w ould be forced to discard his hypothesis based on the results of his experim ent. Regarding (A), the passage does not contain any inform ation about the shape of solid w ater or of other solid form s of m atter, only about A ristotle's conjectures on the shape of solid w ater. Regarding (B), the passage claim s the opposite of this fact: that an object w ith larger m ass w ill not fall to the ground m ore quickly than an object w ith lesser m ass. As for (C), the passage states that the ancient G reeks w ere m ore philosophers than scientists, but never prohibits one from being both. As for (E), the passage states that G alileo used his scientific m ethod to disprove m any com m only held m isconceptions about the rules of physics, but never states that you cannot do this in the absence of his m ethod.
- 88.(C). The passage describes the role of A lcott's w om en in their society and briefly w onders about the author's m otivation.(A) concerns only the last sentence of the passage.(B) and (D) ignore that the passage discusses a novel rather than reality.(D) is also too broad and som ew hat nonsensical since the passage concerns the past.(E) m isses the author's tone there is no indictm ent,m erely a discussion.
- 89.**(E).**In the second paragraph,the passage dism isses M eg's *taking part* by saying it *m eant no m ore than* talking to her husband, *rem aining hom e*, and allow ing him to be a m ediator betw een her and the w orld.(A) m isses the point of the passage and is alm ost backw ards.(B) and (C) are m isplaced details about the alternative to *taking part*.(D) distorts the second paragraph, w hich said her husband w as her m ediator instead of her *taking part*.

- 90.**I and III only.**The first statem ent is justified, as the first sentence states that the m an of the house w as at the w arfront. The third statem ent m ust follow , because the passage states that m en w ent out in public to conduct activities and returned hom e at night. The second statem ent, w hile quite possibly true, is not m entioned in the passage. The passage only states that A lcott glorified this condition in her novel, not that the entire society did so. D o not bring in outside inform ation or m ake assum ptions!
- 91.(**E**).A falsifiable idea is "one that can be shown to be false." The statement no hum an being lives forever can only be shown to be false if one observes a hum an being that lives forever. However, this would be impossible (because of the word forever), and thus the idea is not falsifiable. In addition, answer choices (A) through (D) are incorrect. The statement all birds are black is falsifiable by identifying a single bird that is not black. The statement Earth is the only planet in the universe with intelligent life can be proven false by finding intelligent life on any planet in the universe except Earth. The statement It rains on M ars everyday can be proven false by observing M ars on a single non-rainy day. The statement The sun will explode in 100,000 years can be proven false by waiting more than 100,000 years and verifying that the sun has not exploded. Note that choices (D) and (E) seem somewhat similar—how ever impractical it is to wait 100,000 years to falsify something, there is still a big difference between "100,000 years" and "forever."
- 92.**(B).**The author states in the last paragraph that a theory that is unable to be proven true is very unlikely to be form ed. Therefore, it appears that he/she believes that "confirm ability" lacks a practical application. The author states, *it is understandable that Popper does not devote that m uch time to the criterion of 'confirm ability,'* inferring that confirm ability is less im portant that falsifiability, not m ore. You can elim inate (A). Regarding (C), the author states that a theory that is unable to be proven true is unlikely to be form ed, therefore it is unlikely he/she believes that confirm ability applies to a broad range of theories. As for (D), in the first sentence of the last paragraph, the author states that confirm ability follows the same logic as falsifiability ("By that logic,...") and thus it appears he/she believes that com firm ability is reasonable. As for (E), the author states, *it is understandable that Popper does not devote that m uch time to the criterion of 'confirm ability'*. Thus, the author is unlikely to agree that Popper should have developed the idea of confirm ability.
- 93.**(C)**. The second paragraph focuses on the significance of the two definitions of 'political', as (C) states.(A) is incorrect because no alternative is offered in the second paragraph.(B) is incorrect because there is no "revision" this choice m ight describe the third paragraph. Sim ilarly, in (D), there is no "exception." (E) is closer to the point of the first paragraph.
- 94.**(B).**The author m entions the play as an exam ple,or "illustration," of w hen speech is political,w hich is the aspect discussed in that paragraph.(A) is incorrect,as it is used as an exam ple,not counterpoint.(C) is w rong because the passage does not advocate a position.(D) and (E) m iss the point of the exam ple,w hich is neither about universality nor a fallacy.
- 95.**(E).** The passage states that the hegem onic m odel believed governm ents to operate exclusively through law and the threat and enforcem ent of concrete punishm ent, such as im prisonm ent, m one tary penalties, etc... w hich legitim izes law and supports the exercise of pow er.(A),(B), and (C) all exem plify a using the rule of law to exact concrete punishm ents.(D) does not demonstrate a clear punishm ent, but does represent a clear exercise of pow er (the ability to censor an exhibit). O nly (E) does not represent the use of law and punishm ent, as a coup w ould necessarily not be legal.
- 96.(A). The answ er to this type of question is alw ays explicit in the passage. In the third paragraph, the passage cites H anna Pitkin: *public-spirited conversation happens w hen citizens speak in term s of 'justice*.' N one of the other choices is m entioned in this section of the passage.

- 97. Such a definition is not precisely w rong, but rather is outdated and falls short... (second sentence of first paragraph). This is the only one of the four sentences in paragraphs 1 and 2 that includes an explicit criticism.
- 98.(B). The passage describes two different ideas, explanationism and predictionism, that have both been used to verify or disprove different scientific theories. As for (A), the passage never states that either theory is superior to the other. A Ithough (C) is true, the passage only mentions the two models of the solar system as an example of the workings of explanationism. Therefore, it cannot be the main idea of the passage. Regarding (D), the passage does not describe what is required to posit a physical theory. As for (E), a predictionist and an explanationist will always diverge on how to prove that a scientific theory is true, but they might still agree on whether or not the theory is correct.
- 99.**(E**). Before citing the exam ple of the C opernicus and B rahe m odels of the universe, the author states, it could be the case that a theory predicts som ething and yet does not provide the best explanation of it. The author goes on to use C opernicus and B rahe as an exam ple, stating that both of their theories have predictive pow er, but obviously B rahe's does not offer the best explanation for the w orkings of the solar system. As for (A), the author is actually arguing the opposite: that predictive pow er alone is never enough to verify a theory. (B) does reveal that som e theories have more or less of an ad-hoc quality, but this is not the author's reason for citing this exam ple. The main reason must be related back to explanationism. As for (C), the exam ple show ed the opposite—both theories were found to accurately predict future events, and thus they must have both made the same predictions for those future events. A Ithough it is true that the more complicated model failed (D), the author's intent was to show that an incorrect model can still make correct predictions.
- 100.**I and II only.**The w ords *for exam ple* at the beginning of the sentence containing the crow d analogy follow a sentence about the Pauli exclusion principle. This principle says that ferm ions cannot *inhabit the sam e fundam ental state*. Electrons, w hich are ferm ions, are likened to m em bers of a crow d in a stadium; the fact that electrons cannot *circle the nuclei of atom s in precisely the sam e orbits* (just as crow d m em bers cannot sit on top of one another) is a "consequence" of the Pauli exclusion principle. Thus, the first statem ent is justified. These electrons *m ust occupy m ore and m ore distant locations*; the crow d analogy certainly illustrates that behavior, so the second statem ent is justified. A s for the third, incorrect statem ent, w hile you do know that electrons cannot occupy the sam e orbits as one another and m ust instead occupy m ore and m ore distant locations, you do not know that those orbits are "concentric" or "evenly-spaced."
- 101.**(B)**. The author begins by nam ing the two classes of subatom ic particles, and then divides the remainder of the passage into descriptions of each class and their relation to each other. Regarding (A) and (D), the author explains both of these concepts within the passage, but it is subordinate to the main idea of describing the two types of subatom ic particles, and thus is not the primary purpose of the passage. As for (C) and (E), the author's primary purpose in writing is not to provide examples or to argue.
- 102.**(C).**The author states that ferm ions,not bosons,are the constituents of ordinary m atter.A II other answers are mentioned in the second paragraph of the passage.
- 103.**(D).** The passage states that C ooper pairs of electrons will flow in perfect harm ony and with zero resistance through the metal. As an example of the same phenomenon, you are told that a swirl in a cup of superfluid helium will never dissipate. Therefore, it is correct to infer that a current through a superconducting wire will never dissipate. If you were not certain that you could be sure of this, you can still eliminate the other choices through process of elimination. As for (A), the passage states that an even number of fermions (which, according to the first paragraph, include electrons, protons, and neutrons) constitute a boson, but not an odd number (1/2 integer times an odd will not give an integer). The last paragraph states that scientists argue for the existence of skyrmions in a medium that might permit them to be formed, implying that they have not yet been discovered, so eliminate (B). In (C), the author

states that two electrons cannot circle a nucleus in the same orbit, but they could spin in different orbits that are the same distance from the nucleus. Finally, in (E), the author gives two examples of fermions becoming bosons at cooled temperatures, but does not say this is the *only* situation in which this can occur.

- 104.(A). The first paragraph states that ferm ions obey the Pauli principle, according to w hich no two particles can occupy the same fundamental state. The second paragraph states that bosons tend to bunch together in exactly the same state. This is the opposite of (E), thus (E) is incorrect. (D) is also the opposite of what the passage claims. B osons have integral spin values and ferm ions have half-integer spin. A nswer (B) is incorrect because the passage does not discuss the total number of particle types for bosons for ferm ions and answer (C) is incorrect because the passage explicitly states that both ferm ions and bosons can exist in groups.
- 105.(A). The passage states that the Pauli principle prohibits any two particles from inhabiting the same fundamental state. Further, you know that the Pauli principle should be applied to ferm ions, which include electrons, protons, and neutrons, but not bosons (from the second paragraph). Answer choice (A) discusses electrons, which are ferm ions, avoiding occupation of identical energy levels, so (A) is relevant and thus the correct answer. As for (B), a charged particle in a magnetic field neither provides the criteria for a ferm ion nor references inhabitance of the same state.

 Answer (C) does not specify the type of particle. Answer (D) is about photons, which are stated in the passage as bosons, to which the Pauli principle does not apply. Regarding (E), the passage explicitly states that the Higgs particle is a boson, so the Pauli exclusion principle definitely wouldn't apply here (the beginning of the second paragraph explains this quite clearly).
- 106.**III only.**Y ou are told that Frey points out that *hum ans are often intrinsically m otivated, and that such m otivation explains heroism ,craftsm anship, and other drives that do not fit neatly into the m odel of a narrow ly focused gain-seeker.*The first statem ent is incorrect because the craftsm an in question is w orking for m oney, rather than for the inherent love of the w ork. The second statem ent is incorrect because even though the journalist m ay appear to act heroically, his m otivations are related to his career. The third statem ent is correct because the econom ist in question is w orking w ithout hope of m onetary rew ard.
- 107.**(D).**(A) is incorrect because the passage never says that *H om o econom icus* is a useful w ay to form m athem atical m odels.(B) is incorrect because the passage never says *H om o econom icus* is a theoretically useless construction, only that it is a problem atic one.(C) is w rong because there's no reason to believe that the people w ho criticize the theory *don't fully understand its function*.(D) is correct because the second paragraph of the passage describes num erous problem s w ith *H om o econom icus*, all of w hich center around sim plifying people's m otivations and assum ing they understand m ore than they actually do.(E) is incorrect because the passage never says that *H om o econom icus* fell out of favor.Y ou don't know that the handful of critics cited is representative of "m ost econom ists."
- 108.**I and III only.**Statem ent I is correct because of V eblen and K eynes,w ho allege that *hom o econom icus assum es far too great an understanding of m acroeconom ics on the part of hum ans*.II is incorrect (and too extrem e) because,although Tversky says that people are *unconcerned by sm all chances of large losses,but quite risk-averse regarding sm all losses*,he does not im ply that there is a broader pattern.Statem ent III is correct because of A m artya Sen,w ho says that people *can and do com m it to courses of action out of m orality,cultural expectations,and so forth.*
- 109.**(D)**. The gist of this sentence is that while scientists condem n certain practices as flaw ed, the m ethods they them selves use are subject to many of the same flaw s, according to Feyerabend. You are thus looking for a word, synonymous with *repudiate*, that means to "condem n, censure," or "denounce." *Decry* is the right word.
- 110.(A).A ccording to the passage, Feyerabend wants to demonstrate that historic instances of scientific progress were them selves marked by these flaws, and thus should not be seen as flaws at all. To this end, he describes a

situation that any scientist would agree is an exam ple of progress, and show show it made use of practices that are now condem ned by scientists, including "begging the question," the practice of using a conclusion as evidence for that same conclusion (a little bit like using a vocabulary word in the definition for that same word), and using "propaganda." Feyerabend basically implies that scientists have a choice between throwing this out as an exam ple of good science or accepting these practices as part of good science. Since scientists are unlikely to say that the introduction of heliocentrism was a bad thing, they will be forced to revise their account of what is and is not acceptable scientific practice. Choice (B) is wrong because the point of the case study is that Galileo is a good exam ple of science. As for choice (C), "subjectivity" is called "seriously flaw ed" in the first paragraph. Choice (D) is nonsensical—it basically says tautological reasoning is acceptable only when it's being tautological. It's certainly not why Feyerabend makes use of a case study. (E) misses the point completely—Feyerabend is using an example from history to defend certain ways of doing science.

- 111.(C). The first sentence of this paragraph defines B oal's w ork as a response to a culture of apathy.(A) is incorrect—the paragraph describes a response, not an elaboration.(B) is incorrect because it is not until the last paragraph that the author provides a rationale for the two theatres.(D) is beyond the scope of the passage.(E) is incorrect because there is no evaluation and the styles are not contrasting.
- 112.**(D)**. This is essentially a vocabulary question. "Pow er" is one m eaning of *agency*, and this is the only m eaning that m akes sense in the context of creating *w* ays to free them selves. (A) and (B) are other m eanings of *agency* that do not m ake sense in context. (C) m ight be related to *agent* but has no relationship to *agency* or the passage here. (E) is incorrect as it im plies domination over others.
- 113.**(E).**The last paragraph defines a "spect-actor" as *som eone w ho sim ultaneously w itnesses and creates theater*. In the second paragraph, the passage states that at im age events *everyone is at once theater-m aker and w itness*.(A) is incorrect, as theater is not m entioned. In (B), B oal specifically says that catharsis keeps people passive (also, the audience m em ber is not acting, w hich is crucial to being a "spect-actor").(C) is incorrect and, to an extent, backw ards—the passage said that B oal found that position analogous to that of a passive audience.(D) is too broad, given the first paragraph about traditional theater.
- 114.(A).A t the end of the first paragraph, the author paraphrases B oal: theater etiquette creates a kind of culture of apathy w here individuals do not act com m unally... and rem ain distanced from art.(C) and (E) can be elim inated. (B) and (D) are w rong because B oal states that traditional theater discourages political action by providing catharsis. (A) is correct because B oal states that actors do go into the audience, so they are not prevented from doing so.
- 115.**(D)**. This choice is a characteristic of an Im age w orkshop, not a Forum w orkshop. In the second paragraph, the passage states that Forum w orkshops begin w ith a narrative skit (A) then the facilitator or m ediator (E) encourages spectators to assume the role of the protagonist (B). Choice (C) is justified as the paragraph states that perform ances do not alw ays arrive at a satisfactory solution.
- 116.**II only.**In the third paragraph, the natural rotation of a galaxy, surrounding supernovae, and density w aves are listed as exam ples of the outside influence evidently required for a theoretically unstable cloud to initiate collapse. The first statem ent is a trap fusion appears in the first paragraph and the author does not suggest that it leads to cloud contraction. (W hile the passage does suggest that fusion is related to supernovae and that supernovae can contribute to cloud collapse, don't fill in the gaps yourself the passage sim ply does not provide enough inform ation for you to infer that fusion is part of a series of events that begins cloud contraction.) The second
- statem ent is true (realizing this requires you to m atch up "explosions of stars" in the answ er choice w ith "supernovae" in the third paragraph). The third statem ent is a distortion forcing debris *inw ard*, not outw ard, m ay cause cloud contraction to begin.

117.**(D).**C hoice (A) is true in real life,of course,but is not m entioned in the passage.(B) refers to the m olecular clouds in the second paragraph,not to our solar system .(C) is rem iniscent of this sentence in the third paragraph — The natural rotation of a galaxy can slow ly alter the structure of a cloud — w hich does not refer to our solar system .C orrect answ er (D) reflects that for a system of planets such as our solar system to form around a star during cloud contraction,the presence of these heavy elem ents in the cloud is a necessity.(Y ou are also told that these heavy elem ents m ake up the Earth and even hum an bodies — so,they sound pretty necessary!) C hoice (E) gets the story backw ards — heavy elem ents w ere needed to create the solar system ,not vice-versa.

- 118.**(C)**.The *outw ard therm al pressure of the constituent gases* (of the m olecular cloud) is w hat is *overcom e* in the process of the collapse of the cloud. This is som ething that *inhibits*, or holds back, cloud collapse.
- 119.**III only.**The N orton-Polk-M athis H ouse uses typical R enaissance ideals as well as materials *prevalent in the Italian Renaissance*. However, the passage certainly does not say that the house itself was built in the Renaissance. (For one, it is in San A ntonio!) The first statement is not true. A ccording to the passage, the primary purpose of the building is "to impress," so its purpose is not primarily utilitarian. The second statement is also not true. You are told that the house radiates an air of strength, especially when juxtaposed with the other, seem ingly fragile brick and wood homes of the neighborhood, so you definitely can infer that the house "appears stronger than other nearby homes." The phrase "radiates an air" and the word seem ingly in the passage indicate that you are talking about appearances of strength, so the word appears in the third statement is a very good match (you would not be justified in inferring that the other neighborhood homes are actually weak they just look that way).
- 120.**(C)**. The most important idea in the passage is that a small group of dolphins has been found to form social networks, which is a first among non-hum an animals. One indication of this is that both the first and last sentences in the passage highlight this fact. Answer choice (A) is stated in the passage, but is not the main idea; it explains the behavior of the animals that form social networks. (B) is never stated in the passage, although this study did span a relatively long time. (D) is a much bigger claim than the passage ever suggests; you are never given a motivation for this study. Finally, choice (E) goes against the main idea of the passage as the passage discusses how dolphins can form social networks.
- 121.**I only.**The passage states that other anim als aside from the sponger dolphins often form groups based on circum stances such as genetics or food sources. As the dolphins are the first to be categorized as "social netw orks," it must be true that groups form ed under the previous circum stances would not qualify as social netw orks. For the second statement, the passage does not state that all spongers of Shark B ay form social netw orks, only the females. As for the third statement, the passage does not comment on the location of spongers; it only mentions the spongers of Shark B ay. Thus, you cannot infer that this is true.
- 122.**(E)**.Y ou are told that this belief is an "old canard." A *canard* is a "rum or," or "a false or baseless story." A n "old canard" is one that has been passed around for aw hile very m uch analogous to an "urban legend." Y ou are then told that the blind people in the study have "cerebral superpow ers" and that the discovery that blind people can hear better than sighted people is "a stunning exam ple of the brain's plasticity." Thus,(E) is correct.
- 123.**II only.**Y ou are told that A ristotle *posited a holistic,non-corporeal m ind* and that he w ould have found "shocking" the idea that "the m ind is physically located in the brain." Thus,the first statem ent is not correct,since A ristotle believed in a "non-corporeal" (not part of the body) m ind.Since A ristotle believed in a "holistic" m ind,he did N O T think that *the m ind exists in parts or m odules*. Thus, the second statem ent is correct. A s for the third statem ent, you have no w ay to know w hat A ristotle m ight have thought about blind people's hearing.
- 124.**III only.**The last sentence tells you that the deportation of G erm an-speaking citizens by the A llied pow ers is excised from history books because history is w ritten by the victors this m akes the first statem ent look attractive,

but the statem ent says *during W orld W ar II*. The passage is clear that the deportations *took place alm ost tw o years after the conclusion of the w ar*. The third answ er choice can be inferred from the claim that the U nited States hoped to keep Eastern and C entral European nations aw ay from Soviet influence, m eaning that the U nited States and the Soviet U nion w ere not fully aligned in their view s.A fter you are told that *the Allied pow ers,too,had som ething to gain*, the pow ers listed are the Soviet U nion, B ritain, and the U nited States. Poland, how ever, is listed am ong countries *before* the "too," w hich m eans you cannot infer that it w as an A llied pow er. (M ake sure not to bring outside inform ation into these types of questions. This is *not* a question about w hat you know about W orld W ar II — it's a question about w hether certain things are actually w ritten down in the passage.)

125.**I,II,and III.**The second half of the first paragraph lists the reasons w hy the Soviet U nion,B ritain,and the U nited States,respectively,had som ething to gain from the deportations.Each of the answ er choices above underm ines one of these reasons.N ote the "if true" in the question stem .Y ou are being asked to m om entarily take each answ er choice as a fact,and then determ ine w hether that fact w ould w eaken an argum ent from the passage. "If true" questions can som etim es ask you im agine that w acky or unlikely things are true — don't let that distract you from the task at hand.

126.**(C).**The passage describes the theory of quantum m echanics,how it m odels particles as probabilistic w aves,and how it has been confirm ed over the past 70 years. A nsw er choice (C) correctly incorporates all of these ideas into the m ain idea of the passage. A nsw er choice (A) is incorrect, as it does not address the theory of quantum m echanics, w hich is the overarching idea of the passage. (B) and (D) are both large claims that are out of the scope of the passage. Finally, although it is obvious from the passage that tests can and have been designed to test quantum m echanics, (E) does not express the main idea of the passage.

127.(A). The passage states that Einstein w as deeply troubled by the theory of quantum m echanics, and thus his quote must not be in support of the theory. Further, his reference to dice is to say that he did not believe the universe should be controlled by probability, but should be set. Therefore, (A) best expresses his m otivation; he argues w ith the theory of quantum m echanics stating that particles should not be probabilistic in nature. (B) has no bearing on quantum mechanics, and thus cannot express Einstein's m otivation. (C) is out of scope because of the m ention of causality. (D) both m entions Einstein's religious beliefs, w hich are out of scope, and confuses Einstein's being troubled by quantum mechanics w ith his lack of understanding. (E) m akes a supposition you could not possibly know from the passage about Einstein's religious beliefs.

128.**I and III only.**The first statem ent is a proper inference because passage states that *A particle trapped in a closed box has som e finite probability of being at any location w ithin the box*,m eaning the exact location of the particle cannot be know n.Y ou know from the next sentence that opening the box w ill locate the particle,and thus you can deduce that the location cannot be know n for certain w ithout observing the particle. The second statem ent is incorrect, as the passage actually states the opposite: that m easurem ents of position can be taken. The third choice is a correct inference because the passage states that quantum m echanics describes particles as w aves and that quantum m echanics has been verified as true.

129.**I and III only.**A ccording to the second paragraph,not know ing that they are seeing a theater piece allow s view ers to avoid the etiquette of theatergoing and engage w ith the action and concepts of an unfolding dram a as if these actions and concepts w ere real. This is a good m atch w ith the first statem ent. The third paragraph refers to "scripted characters" in invisible theater, so you cannot infer that invisible theater is best described as im provised. (It m ay be possible in real life for scripted characters to engage in im provised acting, but you cannot infer this from the passage.) A nother reference to dialogue ... set up by invisible theater perform ers w eighs against invisible theater being im provisational. The third paragraph begins, Boal has docum ented various successful instances of invisible theater in w hich non-perform ers ... take unplanned public-m inded action in response to the dialogue and events set up by invisible theater perform ers. The last sentence of the passage also states that ... the goal of guerilla theater is to get people talking publicly. Thus, you can infer that actions taken by the audience once the perform ance is over can be one m easure of success of a theater piece, and thus the third statem ent is true.

- 130.(A).In the first sentence, the author calls invisible theater and guerrilla theater *tw o form s of street theater w ith sim ilar origins but very different approaches*. This is a good m atch w ith (A).(B) is incorrect because the passage doesn't say w hich form is m ore effective.(C) is too broad and the evolution is not the focus.(D) fails because the passage states clearly and describes in great detail the fact that "invisible theater conceals its perform ative nature *w hereas guerrilla theater flaunts it.*" (E) is m uch too broad, as the passage does not cover all artistic life in public places.
- 131.**I and II only.**The first statem ent is true,as the third paragraph goes into great detail about invisible theater's goal of encouraging public-m inded talk,and the passage ends w ith "the goal of guerrilla theater is to get people talking publicly." The second statem ent is justified because you are told in the first paragraph that *Both form s take place exclusively in public places*. The third choice is only explicitly stated in regard to guerilla theater; invisible theater is only said to involve the audience.
- 132.**(C)**. The professors gave diplom as to the people w ho w ere the least able to answ er questions as a w ay to m ock the university's decision.(A) does not have to be true because the passage m erely discusses the form of the professors' protest.(B) cannot be justified since it doesn't have to be true that the professors believed that result w ould follow. Sim ilarly,(D) is w rong because it is not certain that the professors considered the legality of their actions.(E) is not justifiable no inform ation is given about any particular polices the professors decried.
- 133.**I and III only.**The first statem ent,if true,w ould contradict the assum ption of invisible theater that rem oving the boundary betw een perform er and audience encourages involvem ent. The second statem ent describes a very likely result, and a goal, of invisible theater, and thus w ould not "underm ine" the principle of invisible theater. The third statem ent describes a situation where the goal of invisible theater a lively debate about public issues what as already happening, and invisible theater ruined it! This would definitely underm ine the principle of invisible theater.
- 134.**I,II,and III.**Y ou are told in this passage that *w idespread genom ic changes w ould w reak physiological havoc*, such as cancer (statem ent I).Y ou are also told in the second paragraph that *m any organism s have also adapted beneficial m echanism s to induce genetic change*.In short,som e genetic changes are bad,but others are beneficial. The third paragraph explains how genetic change is im portant to im m une functioning (statem ent II),and the last line of the passage tells you "this process is regulated by T cells to prevent harm ful m utations," so the third statem ent is also justified.
- 135.**(C).**The w ord seem ingly indicates that the changes are not really haphazard. "Seem ingly haphazard" refers to "program m ed genetic m utation." The "this" in this seem ingly haphazard process of program m ed genetic m utation harks back to "genetic recom bination," so you can be sure that (C) is a m atch. Som e of the other answers m ay be true— (D) certainly is— but do not answer the question.
- 136.**I,II,and III.**Pro-death signaling is given in a list of *cellular m echanism s that stym ie genetic changes.Stym ie* m eans "hinder." Statem ent I is true.These cellular m echanism s are called *ubiquitous*,w hich m eans "existing everyw here," so certainly they are "very com m on." Statem ent II is also true.In the final sentence of the paragraph,you are told, m alfunctions in m olecular players that safeguard against m utagenesis, such as the protein p53,have been im plicated in diseases such as cancer. Since the m alfunction of p53 m ay cause cancer, you can infer that p53, w hen properly functioning, m ay w ork against cancer. That m eans Statem ent III is also true.
- 137.(A).Y ou are told that T cells need a large repertoire of receptors in order to be able to recognize a w ide variety of pathogens. Then: Relying only on a genetically encoded repertoire w ould be disadvantageously lim iting—analogous to having only a few dozen language phrases w ith w hich to respond to the nearly infinite potential combinations of w ords in a conversation. Instead, the repertoire is generated by a process of genetic

- recom bination... In this analogy, the language phrases are the repertoire of receptors; just as a speaker m ust respond to a nearly infinite body of language com binations, T cells m ust also have a large repertoire so they can respond to a w ide variety of pathogens. Y ou are told that the w ay this repertoire is increased is through genetic recom bination.
- N ote that (B) is out of scope,(C) is the exact opposite of w hat is being described,(D) is a distortion based on another analogy in the passage (also,an analogy on the GRE w ould not be "m eant to elucidate" *another* analogy!),and (E) refers to the first paragraph,not the analogy in question.
- 138.**I only.**In the analogy referenced,the "language phrases" are receptors that can respond to various pathogens. The *nearly infinite potential com binations of w ords* is w hat a speaker m ust respond to the reason a speaker needs a w ide repertoire of language. Sim ilarly, the w ide variety of pathogens is the reason T cells need such a w ide variety of receptors.
- 139.**II and III only.**Y ou are told that H aberm an *focuses the brunt of his criticism on teachers w ho have been insufficiently trained for the realities of the m odern school environm ent and w hose prejudices,lack of deep content know ledge,and excessive focus on order and discipline profoundly lim it their effectiveness. The w ord com prom ise in the question stem m eans som ething like "hurt" or "lim it." N ote that H aberm an thinks that too m uch order and discipline is hurting teachers' effectiveness, so the first choice is the opposite of w hat you w ant. The other two choices m atch up w ith <i>lack of deep content know ledge* and *prejudices*, respectively.
- 140.**(D).**The quotes are present to m ake the point that the students w ho are referenced *non-w hite,im m igrant,or non-English-speaking children* are N O T exceptions.R ather,they are the class the teacher is poorly prepared to teach.H aberm an's point is that the teacher is the problem ,not the students.(E) seem s to reflect a truth that H aberm an is railing against,but has nothing to do w ith the question ("exceptions" refers to students,not teachers).
- 141.**I and II only.**Y ou are told that D ecadent authors em braced artifice over nature, and that H uysm ans's protagonist in an exam ple of D ecadent w riting surrounds him self w ith perfum e, am ong other item s.Y ou can thus infer that at least one follow er of the D ecadent m ovem ent considered perfum e to be an exam ple of artifice, and that he held it to have surpassed, or be superior to, natural entities. B ut you do not know that H uysm ans enjoyed surrounding him self w ith the perfum e— only that his character did so.
- 142.**I,II,and III.**A II three of the features are listed as characteristic of the N aturalist m ovem ent. *Vehicle for the scientific m ethod* m atches *extending the scientific m ethod*,w hile *focused on the effects of environm ent on shaping character* and *elaborated on the w ay inherited traits influenced hum an behavior* both m atch the passage's claim that N aturalism stressed *the influence of environm ent and heredity upon the individual psyche*.If D ecadent authors embraced any of these literary practices,this w ould bring their w ork closer in line w ith N aturalism.
- 143.**(C)**.In the first paragraph, you are told that *one lim itation* of the classical m ethod is *the reliance on average* m easurem ents: it is im possible to distinguish a uniform population of cells expressing interm ediate quantities of a m olecule from a population com posed of separate low and high expressers. This is a good m atch for choice (C). N ote that (A) is precisely w hat you w ant to m easure (not a lim itation), and (E) is a distortion it is *not* preferable to capture only average levels. This goes against the main point of both paragraphs.
- 144.**I and III only.**A ccording to the passage,flow cytom etry and R N A FISH are exam ples of *single-cell m easurem ent technology*,so the first statem ent is true.M uch of the w ording in the second statem ent *it is im possible to distinguish a uniform population of cells expressing interm ediate quantities of a m olecule* is lifted from a sentence in the first paragraph,talking about classical m ethods *not* the new er,single-celled m easurem ent technologies.Finally,you are told that flow cytom etry and R N A FISH have *m ade it possible to capture … the distribution of the m olecule's expression w ithin the population*,w hich is a good m atch for the w ording in the third statem ent.

- 145.**(C).**Y ou are asked for the choice N O T in the passage.Y ou are told that Portugal *once m ined Angola for slaves and raw m aterial*,so (A) and (B) are out. The beginning of the passage concerns Portugal taking over A ngola over a period beginning in the 16th century and culm inating in the 1920's, so kill (D). The passage refers to *Angolan independence in 1975* since that date is during the 20th century (1900's = 20th century, 2000's = 21st century, etc.), kill (E). Y ou are told that a *civil* w ar in A ngola lasted until 2002, not a w ar against the Portuguese, so (C) is the answ er.
- 146.**(B).**The *grand stroke of irony* the author refers to is A ngola helping Portugal.W hy is this ironic? Y ou are told that *the country that once m ined Angola for slaves and raw m aterial is now virtually helpless...* (B) is the best m atch.(A) and (E) are not at all ironic.W hile (C) and (D) at least present som e kind of contrast, they are not the *stroke of irony* to w hich the author refers.
- 147.**(E)**.Y ou are told that G age's physical injury affected his personality, that the part of his brain that w as dam aged is now known to be related to m orality, and that G age *literally lost one* (or m ore) of the m odules in his m odular brain system.(E) is a good m atch.(A) is the opposite of w hat is being argued.(B) is not indicated by the passage (and really goes against com m on sense).(C) m ay be true but is not the reason the author presented the exam ple.(D) relates to the previous paragraph, not to Phineas G age.
- 148.**I only.**The author is saying that,if the brain has a director, then that director w ould need its own director and, presum ably, *that* director w ould need a director, etc. The expression "begging the question" isn't really about a question; the other two choices are traps.
- 149.**II only.**A "unitary entity" w ould N O T be split into parts,or m odules.W hile A ristotle and D escartes believed that the m ind survived death,and lived long enough ago that they couldn't have been aw are *that certain aspects of personality are know n to be controlled by certain areas of the brain*,the question is not only about A ristotle and D escartes it is about all advocates of a unitary view of the m ind (you are told that,historically,that includes "virtually every thinker").Y ou sim ply do not have enough inform ation about these thinkers to know w hether they think the m ind survives death,or w hether som e of them (m ore m odern thinkers,presum ably) are aw are of current research into the brain.
- 150.(A). The first paragraph of the passage stats that oxytocin treatm ents are often tried in isolated cases and the overall effects are w ithout evaluation. The passage then describes a sm all study that seems promising, but makes no definitive claims. Therefore, it is likely that the author would agree that the effects of oxytocin require further evaluation. A nsw er choice (B) is incorrect, as the passage states the opposite, that oxytocin is not a "cure-all." A Ithough the author focuses on the effects of oxytocin for those that are not able to interpret social cues, answ er choice (C) is incorrect, as the author does not state that the drug would not be useful for those that can already do so. The author specifically addresses (D) in the passage, stating that the horm one oxytocin increases feelings of calm and social bonding. Finally, answ er choice (E) is incorrect, as the author never addresses oxytocin as an oral treatment.
- 151.(**D**).The passage states that, the experim ent show ed that the oxytocin had the greatest affect on those w ho w ere least able to evaluate em otions properly w hen given the control. Thus, you can infer that those w ith the least ability to naturally infer em otions, e.g., the ones w ho m ight need it m ost, reaped the greatest benefits of the horm one. A dditionally, (A) is incorrect, as the passage does not discuss inconclusiveness based on sam ple size. (B) is incorrect, as it incorrectly pairs the known effects of the horm one in the brain w ith the results of the student study. (C) is incorrect, as the passage does not address the ability of the students to recognize expressions, just the relative change between the controlled salt w ater dose and the oxytocin. Finally, (E) is incorrect for a similar reason: the passage does not state that the subtler the expression the more difficult it w as for students to identify, just that some expressions that were used were subtler than others.

152.(A). The experim ent w as related to students' ability to recognize em otions from facial expressions, not their ability to tell faces apart.(B) is mentioned in the first sentence of the last paragraph of the passage.(C) is addressed throughout the second passage, first when it is stated that, either a control dose of salt water was given and then by comparing awareness after exposure to oxytocin to the controlled salt water dose.(D) is explicitly stated in the second sentence of the second paragraph. Finally,(E) is explicitly addressed in the last sentence of the second paragraph.

153.**II and III only.**Y ou are told that *Anansi originated w ith the Ashanti people in G hana*,so the first statem ent is untrue.H ow ever,you are told that in Jam aican folklore,A nansi *outsm arts other anim algod characters*,so those characters m ust exist.Since A nansi is called "A unt N ancy" in the U nited States and is from G hana,A nansi is know n on at least two continents.

154.(A).In the first paragraph of the passage, the author describes the discovery of the cosm ic m icrow ave background. In the second, he or she explains why the cosm ic m icrow ave exists and its implications to science. Therefore, the author writes this passage to describe the discovery and reason for the cosm ic m icrow ave background. A nsw er choice (B) is incorrect, as the author cites one example of an accidental discovery, but does not explain how multiple discoveries can be made accidentally. (C) and (D) are incorrect, as the author does not argue or defend, respectively. Finally, the main theory presented in the passage is the cosm ic microw ave background, whereas (E) incorrectly makes it seem as though the author's intent is to defend the B ig B ang and that the cosm ic microw ave background is only a subordinate idea.

155.**(C)**. The second sentence in the first paragraph states that *just an instant after the Big Bang,all m atter in the universe w as so energetic,or hot,that it existed as free particles know n as quarks*. The paragraph proceeds in sequential order, and thus this event happened soonest after the B ig B ang. The events described in (A) and (B) are said to have happened approxim ately 400,000 years after the B ig B ang. A nsw er choice (D) describes the present state of the cosm ic m icrow ave background, 13.6 billion years later. A nsw er choice (E) is never addressed in the passage, and thus cannot be the correct answ er.

156.**(D)**. The passage states that Penzias and W ilson accidentally discovered the cosm ic m icrow ave background, and did not even understand w hat they had found until after consulting the Princeton group. C learly, they did not initially understand the im plications of their result. (A) is incorrect, as the passage does not describe the important of the signal for which Penzias and W ilson were originally searching. (B) is incorrect, as the passage never discusses the Princeton instrumentation used for searching for the cosmic microwave background. The capabilities of the telescope used by Penzias and W ilson is never discussed, thus (C) is not supported. Finally, the opposite of (E) is stated in the passage, which says that Penzias and W ilson convinced them selves that their signal was real before approaching the Princeton team.

157.**II** and **III** only. Sousa argues against m echanical m usic based on the grounds that it is insincere, and that it will decrease m usic in the home and m usic played or sung by am ateurs, as well as m usic instruction in education. The first statement is an example of one of the things Sousa was afraid of — vocal instruction being less a *norm al part of education* — and thus does not "contradict." The second statement is an example of the phonograph *increasing* am ateur music playing and "domestic music," so this does contradict Sousa's point. Finally, the third statement is an example of recorded music being *m ore* sincere than live music, so this definitely contradicts Sousa's point.

158.**(D)**.H ere, *chest* really does m ean "part of the hum an body," not "a trunk or treasury." The statem ent about the "national" throat and chest com es right after a w orry that *m usic w ill becom e the province of m achines and professional singers only*. Thus, the "national chest" is a reference to regular people's singing.

159. The blackbody em its just as m uch energy per unit tim e as it absorbs; the electrom agnetic spectrum of the em itted energy, how ever... (second sentence). The second sentence of the paragraph, after the sem icolon, states that the electrom agnetic spectrum of the em itted energy of a blackbody is com pletely determ ined by tem perature and no other properties. Therefore, the only variable that defines the electrom agnetic spectrum of a blackbody is tem perature, as stated in the second sentence.

- 160.**I only.**The passage states in the first sentence that an idealized blackbody is an object that reflects zero incident electrom agnetic radiation. Therefore, if an object reflects incident electrom agnetic radiation, it cannot be an idealized blackbody and the first statem ent can be properly inferred. The second statem ent, how ever, cannot be inferred as the passage states that a possible D oppler shift can cause a fundam ental change in the original spectral characteristics of reflected electrom agnetic radiation. Finally, for the third statem ent, the passage states that any object that absorbs all incident electrom agnetic radiation is a perfect blackbody. How ever, you are told that a microscopic "forest" of vertically aligned single-wall carbon nanotubes of varying heights applied to a surface is the *closest* that scientists have come to thus far creating a perfectly dark material, implying that this material is not a perfect blackbody. Therefore, you cannot properly infer that this object will absorb all incident radiation.
- 161.**(D).**C hoice (A) is w rong, since there is no reason that one cannot produce original research by using techniques developed by som eone else.(B) m ay be true, but this is not im plied by the use of the w ord *borrow ing*, since all you know is that one technique from evolutionary biology proved helpful to research in linguistics; this is compatible with the two areas having no common features.(C) is w rong, since the fact that methods from outside fields can help make progress in linguistics does not show that such progress cannot be made by other means.(D) is correct: research methods developed in evolutionary biology can lead to results in linguistics.(E) is the opposite of what the passage tells you.
- 162. But given that som e language is spoken by virtually all hum an beings, it would be strange if it did not reflect cognitive universals. While it may be tempting to select the second sentence of the passage, this sentence does not give any support for universalism; it only tells you the grounds on which C hom sky came to a universalist view. On the other hand, the penultim at esentence of the passage does provide support for universalism by noting that it is likely that all languages reflect features innate to hum an thinking, since virtually all hum an beings speak some language.
- 163.**(B).**C hoice (A) is w rong, since the passage gives exam ples of non-em pirical w ays to support universalism .(B) is correct: G ray's team claim s their research casts doubt on C hom sky's theoretical conclusions.(C) m ay or m ay not be true, but the passage only points to evidence of features that do *not* co-vary.(D) is w rong: you know that G ray's team found no evidence of the existence of fam ily-invariant rules, but this does not prove that there are no such rules.(E) is w rong: C hom sky argued that universalism is the "best explanation" for the speed at w hich children learn a language, but that does not m ean that no other explanations are possible.
- 164.**(B).**The passage highlights two key points as they relate to each other: the two competing theories of the universe and H ubble's discovery that the universe is expanding. The correct answer, (B), highlights both of these points and their relation to each other. (A) and (C) highlight only one of these points each. (D) describes H ubble's law, which does not fully capture the main idea. (E) is not an idea presented in the passage, and therefore cannot be the main idea.
- 165.**(E)**. The passage states that, *M* ilton *H* um ason, a fellow astronom er, helped *H* ubble to calculate the stars' relative velocities to Earth, but now here in the passage does it say that *H* ubble deduced the velocity of Earth or the stars' absolute velocities.(A) is mentioned at the beginning of the second paragraph when the author states that, *U* sing this relation and years of observing.(B) is mentioned in the first and fourth sentences of the second paragraph.(C) is stated in the second to last sentence of the second paragraph. Finally, (D) is addressed in the second and third sentences of the second paragraph.

166.**I** and **II** only. The passage states that H ubble's experim ent w as proof that you do not live in a steady-state universe, therefore it m ust be true that the steady-state universe theory does not allow for an expanding universe, and the first statem ent can be inferred properly. The passage also states that the speed at w hich objects are m oving aw ay from each other in space increases w ith an increasing distance betw een the objects. From this, you can properly infer that as the distance betw een two objects decreases, the speed at w hich they m ove apart m ust decrease. Thus, the second statem ent can be properly inferred. Finally, the third statem ent incorrectly assumes that once the steady-state universe theory w as disproved, the B ig B ang w as the only theory that remained. The first sentence of the passage states that m ost physicists believed in one of the two theories, leaving the possibility of m any m ore theories that m ight still agree with H ubble's discovery.

- 167.(A). The argum ent of the passage dism isses the assum ption that the gods determ ine destiny by pointing out that they act "politically," and their agendas often conflict, so that they could not form ulate a "m aster plan." B ut if the gods had a com m on goal, then this objection w ould no longer apply. On the other hand, if the agendas of the gods coincided w ith the dem ands of fate, that w ouldn't support the idea that the gods w ere in charge of fate, so (B) w ould not support the assum ption. If H om er and H esiod disagreed about the m otives and agendas of the gods, as (C) claim s, that w ould not underm ine the view that for both authors fate is beyond the gods. N or w ould the claim that destiny w ould be fulfilled regardless of w hat the gods did choice (D) or the idea that the gods and m ortals can make their own decisions, so long as these decisions ultim ately led to the fulfillm ent of destiny.
- 168.**(B)**. This is the most common sense of the term *unbiased*, and is the only one that fits in this context.(A) is clearly wrong since you are told that the role of the gods is a motif in the *H istories*. Since H erodotus provides an account of conflicts in the H ellenic world,(C) is wrong.(D) is wrong since you are told that the concept of destiny is part of H erodotus's history, so the actions of people and states by them selves cannot explain the events involved. A s for (E), there is no indication that the histories were meant to challenge anyone's sensibilities.
- 169.**I,II,and III.**The first statem ent paraphrases the claim that the gods act *w ithin certain boundaries*,w hile the second statem ent paraphrases the claim that they do so *to accom plish his or her ow n agenda*. The third statem ent is the m ain point of the passage: that the gods act as agents of destiny w hich they do not them selves control.
- 170.**(C)**.C hem ical blockers scatter,or disperse,light w aves.C hem ical absorbers use them to prom ote electrons w hich then release them as light w aves w ith a longer w avelength as they return to their ground energy state.(A) m akes a reference to lightening and darkening light w aves,neither of w hich is m entioned in the passage.(B) and (D) refer to converting light w aves to radiation,w hich is im possible since light w aves are already radiation. And absorbers absorb the radiation into their m olecular structure, not into the skin as in (E).
- 171.(**D**). The chrom ophores absorb light in the 290–320 nm range and use it to promote (or move up) electrons betw een energy levels. Since light with wavelengths of 300 nm falls in this range, their electrons should move up in energy levels when exposed to it.(**C**) would be correct if not for the range given: you don't know how chrom ophores react to light above 320 nm.(**B**) is the exact opposite of what you are looking for.(**A**) applies to physical blockers but not to chemical absorbers.
- 172. The specific w avelength absorbed by a given chrom ophore is determ ined by the discrete quantal am ounts of energy that are required to excite electrons betw een the energy levels or its m olecules. In order to select a chrom ophore for a particular sunscreen, you w ould need to know w hich light w aves the sunscreen needs to block and w hich chrom ophore w ould block those w aves. This sentence tells you w hich feature of a chrom ophore determ ines w hich light w aves it absorbs. The next sentence in the passage m ight seem like a good m atch, but it only tells you how to select a chrom ophore that w ould absorb U V B radiation, not U V A radiation.

- 173.**III only.**The first statem ent is not true, because you are told *For all w e know*, the story m ay have been C hristianized in its oral form long before the poet set it into w riting. The second statem ent is incorrect because you cannot m ake a leap from The story of Sir G aw ain and the G reen K night has its foundation in Arthurian legend to Sir G aw ain w as a knight in K ing Arthur's court. The third statem ent is true, and a good m atch for the final sentence of the passage, w hich tells you that you do not know w hether the tale is a pagan interpretation of C hristian ideals or an externally im posed C hristianization of pagan codes of behavior.
- 174.**(E).**C hoices (C) and (D) are directly contradicted in the passages.N othing suggests that the religious outlook of the interpreter influences their interpretation of the story,so (A) is also w rong.(B) is too strong: the passage only states that,according to its interpretation of the story,G aw ain's m otives are not C hristian.B ut this doesn't show that they could not be.(E),on the other hand,follow s directly from the claim that w hile G aw ain's actions and w ords are C hristian,his m otives are not.
- 175.**(B).**The theory in the final sentence is that the poet associates G aw ain w ith a pagan sym bol and then portrays his "C hristian" virtues as superficial in order to criticize the pagan interpretation of C hristianity.C hoice (B), if true, w ould show that the poet w as, at very least, inconsistent in this m essage (or, possibly, the part about G aw ain being superficial in his virtues is really just about G aw ain.) C hoice (A) is true and described in the passage, so it w ould not "underm ine" the theory.C hoices (C), (D), and (E) do not address the interplay between paganism and C hristianity and thus have no bearing on the theory.
- 176.**I and III only.**Since A styages reacted to his first dream by altering the m arriage arrangem ents for his daughter (in order to select a less threatening husband),you can infer he believed her husband could be a threat. And since he intentionally selected a Persian rather than a Median,you can infer that he thought a Persian would be less of a threat. How ever, although you are told that A styages' dream was *interpreted om inously by the Magi* and that as a consequence, he pursued a course of action (indicating that *this* time, he was influenced by the Magi), you don't know that he thought it was "always" best to obey the Magi, nor is it clear that the Magi made "recommendations." Watch out for extreme language.
- 177.(A).O ne of the two m istakes referred to in the passage was marrying M andane to C am byses.B ut if her son would have deposed A styages even if he had had a different father, then altering what would have been the normal treatment of her marriage was not a mistake that led to A styages's downfall.
- 178.**(B)**. The passage m akes the case that B ierstadt's w ork,w hich is called *optim istic* and *gaudy*,w as no longer suited for the prevailing trends in art in A m erican after the w ar. The optim ism that once characterized A m erican preferences is now "tem pered" by the "horrors of w ar." In other w ords, A m ericans are beginning to take a m ore realistic approach to life, in a w ay that is sadly reflective of the disastrous things that can befall a country. Their attitude, in other w ords, is one of *som ber realism*. D on't get m isled into picking *prideful idealism* by the fact that the passage m entions

 A m erican pride. The passage does not im ply that there w as anything idealistic about the new A m erican attitudes after the C ivil W ar. (A) m ay also be tem pting but the author never m akes any sort of claim as to w hether the new A m erican attitudes are m isguided.
- 179.**(E)**.A central thesis of the passage is that the sam e elem ents that initially m ade B ierstadt's w ork popular eventually contributed to its dow nfall. These elem ents w ere, in short, an em phasis on size and quantity rather than em otionality. The quoted phrase is a criticism of his w ork to this effect, providing a specific exam ple of the opinion of the tim e.(C) m ay be tem pting, but this phrase m ay or m ay not be the opinion of an expert, plus "providing expert testim ony" is not the best description for the purpose of the phrase.
- 180.**(C).**You are told that B ierstadt "developed a fixed style that was most easily recognizable for its size" (A), that he had an "ability to represent the optim istic feeling in Am erica" (B), that he "deliberately appealed to those rich

patrons" (D),and that patrons could purchase a "hyperbolized replica of a W estern vista" (E).The increasing attention to "subdued appreciation for the details of A m erican life" is m entioned in the second paragraph as a trend that w orked against B ierstadt.